



## CARUBBI FRANCESCA M.D. Ph.D.

### Curriculum Vitae

#### Personal

Name **FRANCESCA CARUBBI**  
address Via Verdi 22 42124 Reggio Emilia RE Italy  
Telephone + 39 0593961806  
ORCID **0000-0001-7504-6407**  
E-mail carubbi@unimore.it  
Citizenship Italian C. F. CRBFNC56S61H223D Female

#### Professional life

Medical Doctor, Ph.D. in Hepatic Sciences, Associate professor in Dietetics and human nutrition, Faculty, Medical school, University of Modena and Reggio Emilia, Italy  
Italian Medical Council license ODMEO Reggio Emilia n. 1899

Dean of the Dietitian undergraduate school, University of Modena and Reggio Emilia Feb 2014-nov 2019  
Director of the Postgraduate medical Specialization school in Alimentary Sciences since 2012 to present

Associate professor of Dietetics and nutrition, Faculty at Modena and Reggio Emilia Medical school, Department of Biomedical, metabolic and neural sciences (NEUBIOMET) University of Modena and Reggio Emilia, Italy.

2008-present Chief of the Lipid clinic and of the Regional referral center for rare metabolic disorders at UOC Metabolic medicine, OCSAE Hospital, Azienda Ospedaliera Modena, a University Hospital in Modena, Italy

2005 20.4.2005-2008 Associate Professor SSD Meds 08C, University of Modena and Reggio Emilia appointed physician at the Metabolic Internal medicine Unit at University hospital Modena, AOU Modena, MO Italy.

1999-2008 Associate Professor (SSD MED 49), Faculty of Medicine and Surgery at Modena University, MO, Italy; appointed as a physician M.D. at Azienda Policlinico Modena MO, 3rd Division of Medicine until 5.2006; since then at NOSE USL Modena MO, Italy, Metabolic and Internal Medicine Unit, Department of Medicine, Endocrinology, Geriatrics and Metabolism, NOSE, Azienda USL Modena, Modena, Italy

1999 to the present Coordinator of the outpatient clinic: Diagnosis and therapy of Lipid Metabolism disorders, University of Modena and University Hospital Medicina 3, since 5/06 in OCSAE University hospital, Metabolic Medicine Az. ospedaliero Universitaria Modena.

Since 2012 Chief of the Modena Regional Rare diseases referral center for lysosomal, hepatobiliary and metabolic disorders, Modena, Italy

1993-2005 1993-2005. Faculty, Assistant professor (F07A, MED 09) in Internal Medicine at Modena University, Department of Internal Medicine; Physician, M.D. appointed at Medicina 3 Az. Ospedaliero- Universitaria Policlinico i Modena, Italy

1990-1992 1990-1992 Researcher and post-doctoral fellow in Internal Medicine, Faculty of Medicine and Surgery, University of Modena. Consultant M.D. in Internal Medicine, Medicina III Azienda Policlinico Modena Italy

#### Degree and honors

1981: M.D. degree Facoltà Medicina e Chirurgia University of Modena Italy (12.11.1981 ) cum laude  
1985: Specialist degree in Gastroenterology and Endoscopy University of Modena Italy cum laude  
1987-1990 Italian Ministry of Research and University Scholarship for Ph.D. School in Hepatological sciences  
1991. Ph. D. degree in Hepatology, Italian Ministry of Research  
1984-86: Winner of the International scholarship " B. Boncompagni Ludovisi, Stockholm, Sweden,  
1984-86 Assistant professor Scientist at Division of Hepatic Diseases, (director prof. NB Javitt), Department of Medicine, New York University NY, NY, USA  
1994. Specialist degree in Internal Medicine, University of Modena Italy cum laude.

| TEACHING<br>University Faculty | TEACHING : since 1996 - present:<br>Faculty at Modena University, School of Medicine and Surgery, Italy for the following graduate and undergraduate schools:<br>C.I. Clinical Methodology, Faculty of Medicine<br>C.I. Internal Medicine, Human nutrition Physiotherapist school and Dietician school.<br>C.I Pathology, Nutrition and Metabolic disorders at several courses of the Medical School at Modena University, graduate school for Dietician, Physiotherapists school, graduate medical school.<br>C.I. Internal medicine and Metabolism in the Specialization School of Internal medicine, Endocrinology, Alimentary Sciences and Vascular Surgery.<br>1999-2013 Faculty Ph.D. School in Endocrinological and metabolic sciences, University of Modena, Italy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
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| Research activities            | Experimental and human clinical research "in vitro" and "in vivo" : biliary pathophysiology, liver diseases, hepatic metabolism, cholesterol and lipid disorders, lysosomal disorders:<br>Author of original articles on international journal, 62 in extenso on journals indexed with IF plus 129 other publications, abstracts or book chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| ACADEMIC ACTIVITIES            | 1992-1995 Secretary of the Dean: Commission for Graduate Medical Schools, Faculty of Medicine, Modena University, Italy (Nurses school, Dietician and Rehabilitation Therapist Schools).<br>2013-2019: Dean of the undergraduate Dietitian School, Modena Medical School<br>2012- present Director of the postgraduate medical school in Clinical Nutrition UNIMORE<br>Founder and Director of the Lipid clinic LIPIGEN NETWORK SISA at University of Modena, Italy.<br>Faculty of the Medical School at University of Modena and Reggio Emilia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| FUNDING                        | Italian Ministry of Research and University fundings.<br><br>- PRIN 1998 n. 9806210866_008 , (LORIA Paola): Metabolismo del colesterolo e degli acidi biliari. Relazione fra proprietà fisico-chimiche degli acidi biliari ed effetti metabolici, citolesivi e citoprotettivi sull'epatocita umano. Università degli Studi di MODENA e REGGIO EMILIA<br>- PRIN- 2000: "Omeostasi lipidica e secrezione biliare: ruolo dell'epitelio epatocitario e colangiocellulare" (Coordinator: Prof. Nicola Carulli).<br>- PRIN 2000 MM06175714_001 Area 06 Coordinatore e responsabile Nicola Carulli: REGOLAZIONE DELLA SINTESI DI COLESTEROLO E DI ACIDI BILIARI: EFFETTI ESERCITATI DAGLI ACIDI BILIARI NELL'UOMO E IN MODELLI DI COLTURE CELLULARI Università degli Studi di MODENA e REGGIO EMILIA<br>PRIN 2002 Coordinatore e Responsabile CARULLI Nicola Università degli Studi di MODENA e REGGIO EMILIA . 2002062991_001 Area 06 STUDIO DELLA CORRELAZIONE FRA METABOLISMO DEGLI ACIDI BILIARI E OMEOSTASI LIPIDICA, NELL'UOMO E SU FEGATO BIOARTIFICIALE e EPATOCITI DI MAIALE<br>- PRIN-COFIN 2002: "Regolazione del metabolismo e del trasporto degli acidi biliari come fattore associato al rischio di aterogenesi" (Coordinator: Prof. Nicola Carulli).<br>PRIN 2004 n. 2004067491_001 Area 06 Coordinator Nicola Carulli: INTERAZIONI FRA SINTESI DI ACIDI BILIARI E METABOLISMO LIPIDICO E LIPOPROTEICO IN MODELLI DI PATOLOGIA UMANA DI SINDROME METABOLICA<br>- PRIN-COFIN 2004: "Sindrome metabolica e metabolismo degli acidi biliari: interazioni fisiopatologiche e identificazione di bersagli molecolari per nuovi approcci terapeutici" (Coordinator: Prof. Nicola Carulli).<br>- Quinto Programma Quadro Unione Europea 2001- 2004: "Studies on the role of orphan nuclear receptors on cholesterol catabolism as new pharmacological targets for cardiovascular diseases and search for ligands modulating their activity" (Coordinator: Prof. M.Crestani, Milan University) |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| Language                       | Italian mothertongue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| Other languages                | English good level, French: medium level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| Self evaluation                | <table><tr><th colspan="2">Comprehension</th><th colspan="2">Reading</th><th colspan="2">Writing</th></tr><tr><th>Ascolto</th><th>Lettura</th><th>Interazione orale</th><th>Produzione orale</th><th colspan="2"></th></tr><tr><td>excellent</td><td>excellent</td><td>Very good</td><td>Very good</td><td></td><td>Good</td></tr><tr><td>fair</td><td>fair</td><td>fair</td><td>poor</td><td></td><td>poor</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                  |         |      |  |  | Comprehension |  | Reading |  | Writing |  | Ascolto | Lettura | Interazione orale | Produzione orale |  |  | excellent | excellent | Very good | Very good |  | Good | fair | fair | fair | poor |  | poor |
| Comprehension                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Reading           |                  | Writing |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| Ascolto                        | Lettura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Interazione orale | Produzione orale |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| excellent                      | excellent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Very good         | Very good        |         | Good |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| fair                           | fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | fair              | poor             |         | poor |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| English                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |
| French                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                  |         |      |  |  |               |  |         |  |         |  |         |         |                   |                  |  |  |           |           |           |           |  |      |      |      |      |      |  |      |

## Most relevant publications:

1. M. Ponz de Leon, F. Carubbi, P. Di Donato, N. Carulli. "Cholesterol esterase activity of human intestinal mucosa". *Dig. Dis. Sciences*; 30 : 1053-1064, (1985)
2. P. Di Donato, F. Carubbi, M. Ponz de Leon, N. Carulli. "Effect of small doses of deoxycholic acid on biliary lipid composition in humans". *GUT* ; 27 : 23-28 (1986)
3. NB Javitt, E. Kok, F. Carubbi, T. Blizzard. "Bile acid synthesis: metabolism of 3B-OH-5-cholenoic acid to chenodeoxycholic acid" *J Biol. Chem.*; 261 : 12486-12489, (1986).
4. Bertolotti M., Abate N., Loria P., Dilengite M.A., Carubbi F., Pinetti A., Digrisolo A., Carulli N. "Regulation of bile acid synthesis in humans: effect of treatment with bile acids, cholestyramine or simvastatin on cholesterol 7 $\alpha$  hydroxylation rates "in vivo". *Hepatology* ; 14: 830-837 (1991)
5. Bertolotti M., Abate N., Loria P., Concarì M., Messori R., Carubbi F., Pinetti A., Carulli N. Effects of aging on cholesterol 7 $\alpha$ -hydroxylation in humans. *J.Lipid Res* ; 34 : 1001-1007 (1993).
6. Loria P., Bertolotti M., Cassinadri M.T., Dilengite M.A., Bozzoli M., Carubbi F., Concarì M., Guicciardi M.E., Carulli N. Short-term effects of simvastatin on bile acid synthesis and biliary lipid secretion in human subjects. *Hepatology*; 19: 882-888 (1994).
7. Loria P., Bozzoli M., Concarì M., Guicciardi M.E., Carubbi F., Bertolotti M., Piani D., Nistri A., Angelico M., Romani M., Carulli N. Effect of taurohyodeoxycholic acid on biliary lipid secretion in humans. *Hepatology* 25: 1306-14, (1997)
8. M. Bertolotti, L. Carulli, M. Concarì, P. Martella, P. Loria, E. Tagliafico, S. Ferrari, M. Del Puppo, B. Amati, E. De Fabiani, M. Crestani, C. Amorotti, A. Manenti, F. Carubbi, A. Pinetti, N. Carulli: "Suppression of bile acid synthesis, but not of cholesterol 7 $\alpha$ -hydroxylase expression in vitro, by obstructive cholestasis in human subjects". *Hepatology*, 34: 234-242, (2001)
9. Carubbi F., Guicciardi M.E., Concarì M., Loria P., Bertolotti M., Carulli N. Comparative cytotoxic and cytoprotective effects of taurohyodeoxycholic acid (THDCA) and tauroursodeoxycholic acid (TUDCA) in HepG2 cell line. *Biochim Biophys Acta* 1580: 31-39, (2002)
10. Bertolotti M., Zambianchi L., Carubbi F., Simonini M.S., Del Puppo M., Galli Kienle M., Loria P., Pinetti A., Carulli N.: "Influence of newly synthesized cholesterol on bile acid synthesis during chronic inhibition of bile acid absorption". *Hepatology*, 38: 939-946, (2003)
11. G. Guaraldi, G. Orlando, A. Roverato, G. De Santis, A. Pedone, A. Spaggiari, A. Baccarani, D. De Fazio,
- M. Vandelli, C. Bertucelli, B. Beghetto, G. Nardini, V. Borghi, C. Grisendi, M. Bertolotti, F. Carubbi, I. Zini, R. Esposito (2006). Tenofovir treatment in HIV-related lipodystrophy syndrome. Retrospective observational forty-eight weeks follow-up study. *TRENDS IN MEDICINE*, vol. 6, p. 77-85, ISSN: 1594-2848
12. Priore Oliva C., Carubbi F., Schaap F.G., Bertolini S., Calandra S. Hypertriglyceridemia and low plasma HDL in a patient with apolipoprotein A-V deficiency due to a novel mutation in the ApoA5 gene. *J Internal Medicine* 263: 450-458 (2008)
13. Gabbi C., Carubbi F., Losi L., Loria P., Costantini M., Bertolotti M., Carulli N. (2008). Nonalcoholic fatty liver disease induced by leuprorelin acetate. *JOURNAL OF CLINICAL GASTROENTEROLOGY*, vol. 42, p. 107-110, ISSN: 0192-0790
14. DI ROCCO M, GIONA F, F. CARUBBI, LINARI S, MINICHILLI F, BRADY. R.O, MARIANI G, CAPPELLINI M.D. (2008). A new type 1 Gaucher disease severity score index for phenotypic classification and evaluating responses to treatment. *HAEMATOLOGICA*, vol. 93, p. 1211-1218, ISSN: 0390-6078
15. C. Angelini, C. Semplicini, S. Ravaglia, B. Bembì, S. Servidei, E. Pegoraro, M. Moggio, M. Filosto, E. Sette, G. Crescimanno, P. Tonin, R. Parini, L. Morandi, G. Marrosu, G. Greco, O. Musumeci, G. Di Iorio, G. Siciliano, M. A. Donati, F. Carubbi, M. Ermani, T. Mongini, A. Toscano (The Italian GSDII Group). (2012). Observational clinical study in juvenile-adult glycogenosis type 2 patients undergoing enzyme replacement therapy for up to 4 years. *JOURNAL OF NEUROLOGY*, vol. 259, p. 952-958, ISSN: 0340-5354, doi: 10.1007/s00415-011-6293-5
16. Angelini C, Semplicini C, Ravaglia S, Moggio M, Comi GP, Musumeci O, Pegoraro E, Tonin P, Filosto M, Servidei S, Morandi L, Crescimanno G, Marrosu G, Siciliano G, Mongini T, Toscano A, Sette E, Tugnoli V, Parini R, Rigoldi M, Donati MD, Gasperini S, Vercelli L, Barca E, di Giacomo R, Pasanisi MB, Bembì B, Lucchini V, Piras R, Ricci G, Di Iorio G, Diodato D, Carubbi F, Ariatti A Italian Group on GSDII (2012). New motor outcome function measures in evaluation of late-onset Pompe disease before and after enzyme replacement therapy. *MUSCLE & NERVE*, vol. 45, p. 831-834, ISSN: 0148-639X, doi: 10.1002/mus.23340
17. Sechi L, Deroma A, Lapolla S, Paci D, Melis A, Burlina F, Carubbi M, Rigoldi M, Di Rocco M. (2012). Fertility and pregnancy in women affected by glycogen storage disease type I, results of a multicenter Italian study. *JOURNAL OF INHERITED METABOLIC DISEASE*, 5.5.2012, ISSN: 0141-8955, doi: 10.1007/s10545-012-9490-1
18. Francesca Carubbi, Lisa Bonilauri. Fabry disease: raising awareness of the disease among physicians. *Intern Emerg Med* (2012) 7 (Suppl 3): S227–S231 doi: 10.1007/s11739-012-0821-x. Jan;232(1):99-109. doi: 10.1016/j.atherosclerosis.2013.10.030. Epub 2013 Nov 6. PubMed PMID: 24401223.4
- 19 Loria P, Marchesini G, Nascimbeni F, Ballestri S, Maurantonio M, Carubbi F, Ratzliff V, Leonardo A. Cardiovascular risk, lipidemic phenotype and steatosis. A comparative analysis of cirrhotic and non-cirrhotic liver disease due to varying etiology. *Atherosclerosis*. 2014
20. Loria P, Marchesini G, Nascimbeni F, Ballestri S, Maurantonio M, Carubbi F, Ratzliff V, Leonardo A. Cardiovascular risk, lipidemic phenotype and steatosis. A comparative analysis of cirrhotic and non-cirrhotic liver disease due to varying etiology. *Atherosclerosis*. 2014 Jan;232(1):99-109. Epub 2013 Nov 6. PMID: 24401223.4
21. G. Giuffrida, MD Cappellini, F. Carubbi, M. Di Rocco, G. Iolascon. Management of Bone Disease in Gaucher Disease Type 1: Clinical Practice ADV THER, (2014) on line 17.12.14, DOI10.1007/s12325-014-0174-0.
22. Sechi A, Deroma L, Lapolla A, Paci S, Melis D, Burlina A, Carubbi F, Rigoldi M, Di Rocco M. Fertility and pregnancy in women affected by glycogen storage disease type I, results of a multicenter Italian study. *J Inherit Metab Dis*. 2013 Jan;36(1):83-9. doi: 10.1007/s10545-012-9490-1. Epub 2012 May 5. PubMed PMID: 22562700.
23. MD Cappellini, F. Carubbi, F. Perticone. La malattia di Gaucher, multisistemica, cronica, progressiva. *Intern Emerg Medicine* 2016, NS1-NS7
24. Nascimbeni F, Dalla Salda A, Carubbi F. Energy balance, glucose and lipid metabolism, cardiovascular risk and liver disease burden in adult patients with type 1 Gaucher disease. *Blood Cells Mol Dis*. 2016 epub Oct 20. pii: S1079-9796(16)30228-5. doi: 10.1016/j.bcmd.2016.10.012.

22. F.Nascimbeni, E. Pellegrini, S. Lugari, ... F. Carubbi Statins and nonalcoholic fatty liver disease in the era of precision medicine: More friends than foes Atherosclerosis 2019 on line 3.3. 2019  
doi:10.1016/j.ymgme.2018.08.004

"PREVALENCE AND PREDICTORS OF LIVER FIBROSIS EVALUATED BY VIBRATION CONTROLLED TRANSIENT ELASTOGRAPHY IN TYPE 1 GAUCHER DISEASE." Nascimbeni F, Cassinerio E, Dalla Salda A, Motta I, Bursi S, Donatiello S, Spina V, Cappellini MD, Carubbi F. Mol Genet Metab. 2018 Aug 11. pii: S1096-7192(18)30381-0. doi:10.1016/j.ymgme.2018.08.004.

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"HYPERFERRITINEMIA AND DIAGNOSIS OF TYPE 1 GAUCHER DISEASE." Am J Hematol. 2020 May;95(5):570-576. doi: 10.1002/ajh.25752. Epub 2020 Feb 22.PMID: 32031266

." Carubbi F, Cappellini MD, Fargion S, Fracanzani AL, Nascimbeni F. Dig Liver Dis. 2020

"LIVER INVOLVEMENT IN GAUCHER DISEASE: A PRACTICAL REVIEW FOR THE HEPATOLOGIST AND THE GASTROENTEROLOGIST Apr;52(4):368-373. doi: 10.1016/j.dld.2020.01.004. Epub 2020 Feb 11.PMID: 32057684 Review.

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23. EAS Familial Hypercholesterolaemia Studies Collaboration (FHSC). Global perspective of familial hypercholesterolaemia: a cross-sectional study(FHSC). Lancet. 2021; 398: 1713-1725. doi: 10.1016/S0140-6736(21)01122-3. Epub 2021 Sep 7. PMID: 34506743. 80.Carubbi, F., Barbato, A., Burlina, A.B., Strazzullo, P. Nutrition in adult patients with selected lysosomal storage diseases, NMCD, 2021, 31: 733-74481.Cappellini MD, Motta I, Barbato A., Giuffrida G., Carubbi F, Giona F. Similarities and differences between Gaucher disease and acid sphingomyelinase deficiency: An algorithm to support the diagnosis. European J Internal Medicine on line 26 Nov 202282.C.Greco, F.Nascimbeni, F.Carubbi, P. Andreone, M. Simoni, D.Santi. Association of Nonalcoholic Fatty Liver Disease (NAFLD) with Peripheral Diabetic Polyneuropathy: A Systematic Review and Meta-Analysis. J. Clin. Med. 2021, 10(19), 4466; https://doi.org/10.3390/jcm1019446683.amporeale A, Moroni F, Lazzeroni D, ...Carubbi F, Econimo L. Trabecular complexity as an early marker of cardiac involvement in Fabry diseaseEuropean heart journal. Cardiovascular Imaging 2022;23, (22): 200-208 Jan 2022 DOI 10.1093/ehjci/jeaa354

Participant in advisory boards for lysosomal disorders diagnosis and therapy in Italy and European expert group.  
I hereby confirm that I obtained certifications GCP for conducting research clinical studies..

ORCID 0000-0001-7504-6407

t

I hereby authorize my personal data collection and use according to the Italian Decreto Leg.30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Francesca Carubbi



Modena 11. Mar 2026