

DILETTA OVERI

Curriculum Vitae

Part I – General Information

Full Name	Diletta Overi
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Part II – Education

II A – Qualifications

Type	Year	Institution	Notes
PhD	2021	Sapienza University of Rome	PhD in Experimental and Clinical Hepato-Gastroenterology.
Licensure	2017	Sapienza University of Rome	License to practice medicine
University graduation	2017	Sapienza University of Rome	Master's Degree in Medicine and Surgery (110/110 <i>cum laude</i>)
High School graduation	2010	Istituto del Sacro Cuore, Florence, Italy	Liceo classico (100/100 <i>cum laude</i>)

II B – Training courses

Year	Institution	Notes
2022	COST Action CA18122 – Euro-Cholangio-Net	Hybrid Training School on Multi-Omics. 2-3 June, 2022.
2021	COST Action CA18122 – Euro-Cholangio-Net	Virtual Training school in novel experimental models for cholangiocarcinoma: from ex vivo patient-derived organoids to in vivo animal models. 11-12 March, 2021.
2019	Office of Animal Care and Use (OACU), University of North Carolina at Chapel Hill, NC, USA	Training course and certification of proficiency in Mouse handling and aseptic techniques on rodents. 22 May, 2019.
2013	IRCAD, Strasbourg, France	B.E.S.T. Innovation Course – Business Engineering Surgical Technologies. 26-31, August 2013.

Part III – Appointments

IIIA – Academic Appointments

Start – End	Institution	Position
2021 – 2025	Department of Anatomical, Histological, Forensic Medicine and Orthopedic Sciences. Sapienza University of Rome, Rome, Italy	Ricercatore a tempo determinato – Tipo “A”
2019 – 2019	Department of Cell Biology and Physiology. University of North Carolina at Chapel Hill, Chapel Hill, NC, USA	Research Associate
2017 – 2021	Department of Anatomical, Histological, Forensic Medicine and Orthopedic Sciences. Sapienza University of Rome, Rome, Italy	PhD Student (Thesis title: “Ruolo delle cellule staminali/progenitrici nella rigenerazione epatica e delle vie biliari: fenotipo e vie di segnalazione coinvolte”)
2014 – 2017	Department of Anatomical, Histological, Forensic Medicine and Orthopedic Sciences. Sapienza University of Rome, Rome, Italy	Graduate student and thesis internship (Thesis title: “Il ruolo delle cellule progenitrici epatiche nella steatosi epatica non alcolica: aspetti istomorfologici, caratteristiche genetiche e livelli di stress ossidativo sistemico”)

IIIB – Other Appointments

Start – End	Institution	Position
2020–2022	COST Action CA18122 – Euro-Cholangio-Net	Social Media Manager

Part IV – Teaching experience

Year	Institution	Lecture/Course
2023–present	Sapienza University of Rome, Rome, Italy	Anatomia Umana I (BIO/16, 3 CFU), Corso integrato di Anatomia Umana. Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia B (abilitante all’esercizio della professione di Medico Chirurgo).
2022–present	Sapienza University of Rome, Rome, Italy	Anatomia Umana II (BIO/16, 2 CFU), Corso integrato di Anatomia umana e meccanica dei sistemi biologici. Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia HT (abilitante all’esercizio della professione di Medico Chirurgo).

2022–present	Sapienza University of Rome, Rome, Italy	Anatomia Umana (BIO/16, 3 CFU), Corso integrato di Basi morfologiche e funzionali del corpo umano. Corso di laurea in Igiene Dentale A (abilitante alla professione sanitaria di igienista dentale).
2022–present	Sapienza University of Rome, Rome, Italy	Tutoring for students in Human Anatomy for dissection activities.
2019–present	Sapienza University of Rome, Rome, Italy	Support to teaching activities. Corso integrato di Anatomia Umana. Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia A.

Part V - Society memberships, Awards and Honors

V A – Society memberships

Year	Society Membership
2023–present	Società Italiana di Anatomia e Istologia (SIAI)
2023–present	COST Action CA22125 – Precision-BTC-Network
2018–present	European Network for the Study of Cholangiocarcinoma (ENS-CCA)
2020–2023	COST Action CA18122 – European Cholangiocarcinoma Network (Euro-Cholangio-Net)
2018	European Association for the Study of the Liver (EASL)

V B – Awards and Honors

Year	Awards and Honors
2022	Regione Lazio prize: “Contributi premiali per i ricercatori e assegnisti di ricerca per rafforzarne la condizione professionale e potenziare il sistema della ricerca del Lazio” - Obiettivo di Policy 4 “Un’Europa più sociale” - Obiettivo specifico f. Programma Fondo Sociale Europeo Plus (FSE+) 2021- 2027. (Codice SIGEM 22009D).
2010	National Excellence Honour Roll (Albo Nazionale delle Eccellenze).

V C – Editorial board membership

Year	Journal	Role
2023–present	Frontiers in Cell and Developmental Biology	Associate editor
2022–2023	Frontiers in Cell and Developmental Biology	Review editor
2022–2023	Cells	Editor for a special issue

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

VIA – Grants as PI-principal investigator

Year	Title	Program	Grant value
2023–present	Unraveling morpho-molecular heterogeneity in cholangiocarcinoma for the individuation of tissue biomarkers and targetable pathways (PI)	PRIN: PROGETTI DI RICERCA RILEVANTE INTERESSE NAZIONALE – Bando 2022	
2023–present	Non-invasive biological and molecular characterization of autoimmune liver diseases and variant syndromes (Associated PI)	PROGETTI DI RICERCA RILEVANTE INTERESSE NAZIONALE – Bando 2022 PNRR. PI: Prof. Luca Maroni	

VIB – Grants as Investigator

Year	Title	Program
2022–present	“Rna based therapeutics in cancer: from discovery to pre-clinical studies” (<i>componente di massa critica</i>)	PNRR Centro Nazionale 3 – Spoke 2. PI: Prof. Alberto Boffi.
2022–present	“Creazione di un’infrastruttura di innovazione, servizio, formazione, terza missione e ricerca aperta e distribuita sul territorio, finalizzata a supportare la creazione e sviluppo di dispositivi medici”	Progetto PNRR Rome Technopole - Progetto Flagship 4. PI: Prof. Livia Ottolenghi.
2022	“Anatomical and molecular characterization of liver and biliary tree stem cell niches and their role in human chronic liver diseases and cholangiocarcinoma”	Progetti di ricerca medi, Sapienza Università di Roma. PI: Prof. Eugenio Gaudio.
2020	Role and activation mechanisms of Biliary and hepatic stem/progenitor cells during liver and biliary diseases.	Progetti di ricerca medi, Sapienza Università di Roma. PI: Prof. Antonio Franchitto.
2019	Hepatic and biliary stem/progenitor cells niches: role, activation mechanisms and their potential role in liver and biliary diseases.	Progetti di ricerca medi, Sapienza Università di Roma. PI: Prof. Paolo Onori.

2018	Ruolo dell'antagonista del recettore della secretina nel danno delle vie biliari e della fibrosi epatica in modello sperimentale di colangite biliare primitiva.	Progetti di ricerca piccoli, Sapienza Università di Roma. PI: Prof. Paolo Onori
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VI C – Other Fundings

2021	Virtual Mobility Grant. COST Action CA18122 – European Cholangiocarcinoma Network (grant value: € 1.500,00).
2018	Bursary to attend EASL International Liver Congress 2018, Paris, France
2017	PhD bursary. PhD Course in Experimental and Clinical Hepato-Gastroenterology. Sapienza University of Rome, Rome, Italy.

Part VII – Research Activities

VII A – Research Activities

Keywords	Brief Description
Endoderm stem cells; liver; biliary tree; regenerative medicine; cell cultures	<p>Anatomy of endoderm stem cell niches and their role in regenerative medicine of the liver and the biliary tree.</p> <ol style="list-style-type: none"> 1. Identification of endoderm stem cell niches within the hepato-bilio-pancreatic system and in the duodenum; immunophenotypical study of stem/progenitor cells and their niche <i>in situ</i>. 2. Isolation of stem/progenitor cells from the liver, biliary tree, and duodenum, both from adult and fetal organs, and development of self-replicating culture conditions both on plastic and in 3D as organoids. 3. Identification of culture conditions with the potential to induce differentiation of biliary tree stem/progenitor cells into mature hepatocytes <i>in vitro</i>, without the need for genetic reprogramming. 4. Evaluation of the differentiative potential towards hepatic and pancreatic fate <i>in vivo</i> in animal models, both murine and porcine, by cell injection or by “Patch Graft” method.
Hepatic stem/progenitor cells; liver diseases; cholangiopathies; primary biliary cholangitis; steatotic liver disease	<p>Characterization of hepatic stem/progenitor cells (HpSCs) and their niche in liver diseases and in cholangiopathies</p> <ol style="list-style-type: none"> 1. Histomorphological and immunohistochemical study of HpSCs in normal livers and in pathological conditions. 2. Characterization of cell signaling pathways within HpSC niche in liver diseases and cholangiopathies. 3. Investigation of the relationship between liver disease severity and HpSC activation in steatotic liver disease with the individuation of severe histological patterns of disease and associated (cardio)metabolic risk factors; demonstration of the benefic role of therapeutic interventions (dietary modifications and bariatric surgery) in restoring

	<p>normal liver histology and silencing HpSC response in pediatric patients with steatotic liver disease.</p> <ol style="list-style-type: none"> 4. Identification of HpSCs as a hallmark of disease severity in primary biliary cholangitis at diagnosis and as an independent predictor of response to first line therapy. 5. Individuation of ductular-canalicular junction formation as a histological feature as a response to cholestasis mediated by HpSCs, both in human primary biliary cholangitis and an experimental model of cholangitis.
<p>Biliary tree stem/progenitor cells; primary sclerosing cholangitis; lineage tracing; orthotopic liver transplantation</p>	<p>Characterization of biliary tree stem/progenitor cell (BTSC) niches in the development and progression of cholangiopathies.</p> <ol style="list-style-type: none"> 1. Histomorphological and immunophenotypical characterization of BTSC niche within peribiliary glands in normal ducts and in primary sclerosing cholangitis. 2. Description of cell signaling pathways in peribiliary glands and biliary tree regeneration in primary sclerosing cholangitis. 3. Demonstration of the role of BTSCs in biliary epithelium regeneration by lineage tracing in a murine model of cholangiopathy (DDC). 4. Characterization of a model of bile duct regeneration by precision cut bile duct slices and <i>ex vivo</i> demonstration of regenerative capabilities of BTSCs. 5. Individuation of the putative role of peribiliary gland ischemic injury as a risk factor for severe biliary complications and need for re-transplantation after orthotopic liver transplantation.
<p>Cholangiocarcinoma; biliary tract cancer; spatial molecular analysis; tumor microenvironment; tumor biomarkers</p>	<p>Cell of origin and biliary tree stem/progenitor cell (BTSC) niche involvement in cholangiocarcinoma.</p> <ol style="list-style-type: none"> 1. Histomorphological and immunophenotypical characterization of cholangiocarcinoma anatomical subtypes and identification of histological subclasses with distinct cells and ducts of origin. 2. Demonstration of BTSC niche involvement in the progression from primary sclerosing cholangitis towards cholangiocarcinoma. 3. Description of tumor microenvironment and extracellular matrix in cholangiocarcinoma with the identification of soluble factors linked to tumor growth in specific subtypes. 4. Individuation of tissue biomarkers of cholangiocarcinoma and individuation of cancer stem cell populations <i>in situ</i>. 5. Identification of molecular signatures of tumors with spatial molecular analysis and correlation with clinical data and patient prognosis.

VII B – National and International Conferences

Role	Year	Notes
Panelist	2023	Webinar “Women in Sciences: passion and challenges”. Euro-Cholangio-Net, ENSCCA & ICRN Mentorship Lecture. September 21, 2023.
Speaker	2023	76° Congresso Nazionale della Società Italiana di Anatomia e Istologia (SIAI), September 11-13, 2023, Modena, Italy.
Organizing committee member	2023	COST Action CA18122 EURO-CHOLANGIO-NET monothematic conference “The Importance of Accurate Diagnosis and Classification of Cholangiocarcinoma”. June 8-9, 2023, Rome, Italy.
Poster presenter	2022	75° Congresso Nazionale della Società Italiana di Anatomia e Istologia (SIAI), September 14-16, 2022, Padova, Italy.
Poster presenter	2018	72° Congresso Nazionale della Società Italiana di Anatomia e Istologia (SIAI), September 20-22, 2018, Parma, Italy.
Poster presenter	2018	EASL International Liver Congress 2018, April 11-15, 2018, Paris, France.

Part VIII – Summary of Scientific Achievements

Product type	Number	Database	Start	End
Papers [international]	38	Scopus	2016	2024

Total Impact factor (IF)	359
Average IF	9.7
Total IF as first/co-first author	45 (n=7)
Average IF as first/co-first author	6.5
Total Citations	1047
Average Citations per Product	28
Hirsch (H) index	20
Normalized H index*	2.2

*H index divided by the academic seniority.

Research output was calculated based on Scopus database.

Impact factor was obtained from Journal Citation Reports (JCR) – Clarivate based on the year of publication of each paper. Latest JCR update: 2022.

Part IX– Selected Publications

List of the publications selected for the evaluation.

Citations were obtained from Scopus database. Impact factor was obtained from Journal Citation Reports (JCR) – Clarivate based on the year of publication of each paper. Latest JCR update: 2022.

Publications	Citations	IF (year)
1. Carpino G, Cardinale V, Folseraas T, Overi D , Grzyb K, Costantini D, Berloco PB, Di Matteo S, Karlsen TH, Alvaro D, Gaudio E. <i>Neoplastic transformation of peribiliary stem cell niche in cholangiocarcinoma arisen in primary sclerosing cholangitis.</i> Hepatology. 2019 Feb;69(2):622-638.	46	14.68 (2019)
2. De Jong IEM, Matton APM, van Praagh JB, van Haaften WT, Wiersema-Buist J, van Wijk LA, Oosterhuis D, Iswandana R, Suriguga S, Overi D , Lisman T, Carpino G, Gouw ASH, Olinga P, Gaudio E, Porte RJ. <i>Peribiliary glands are key in regeneration of the human biliary epithelium after severe bile duct injury.</i> Hepatology. 2019 Apr;69(4):1719-1734.	40	14.68 (2019)
3. Carpino G*, Overi D* , Melandro F, Grimaldi A, Cardinale V, Di Matteo S, Mennini G, Rossi M, Alvaro D, Barnaba V, Gaudio E, Mancone C. <i>Matrisome analysis of intrahepatic cholangiocarcinoma unveils a peculiar cancer-associated extracellular matrix structure.</i> Clinical Proteomics. 2019 Oct 30;16:37. * co-primi autori	29	2.57 (2019)
4. Carpino G, Nevi L, Overi D , Cardinale V, Lu WY, Di Matteo S, Safarikia S, Berloco PB, Venere R, Onori P, Franchitto A, Forbes SJ, Alvaro D, Gaudio E. <i>Peribiliary gland niche participates in biliary tree regeneration in mouse and in human primary sclerosing cholangitis.</i> Hepatology. 2020 Mar;71(3):972-989.	36	17.43 (2020)
5. Overi D , Carpino G, Franchitto A, Onori P, Gaudio E. <i>Hepatocyte injury and hepatic stem cell niche in the progression of non-alcoholic steatohepatitis.</i> Cells. 2020 Mar 2;3(3):590.	39	6.60 (2020)
6. Carpino G, Del Ben M, Pastori D, Carnevale R, Baratta F, Overi D , Francis H, Cardinale V, Onori P, Safarikia S, Cammisotto V, Alvaro D, Svegliati-Baroni G, Angelico F, Gaudio E, Violi F. <i>Increased liver localization of lipopolysaccharides in human and experimental non-alcoholic fatty liver disease.</i> Hepatology. 2020 Aug 72(2):470-485.	196	17.43 (2020)
7. Carpino G, Cardinale V, Di Giamberardino A, Overi D , Donsante S, Colasanti T, Amato G, Mennini G, Franchitto M, Conti F, Rossi M, Riminucci M, Gaudio E, Alvaro D, Mancone C. <i>Thrombospondin 1 and 2 along with PEDF inhibit angiogenesis and promote lymphangiogenesis in intrahepatic cholangiocarcinoma.</i> Journal of Hepatology. 2021 Dec;75(6):1377-1386	39	30.08 (2021)

8. Overi D , Carpino G, Moretti M, Franchitto A, Nevi L, Onori P, De Smaele E, Federici L, Santorelli D, Maroder M, Reid LM, Cardinale V, Alvaro D, Gaudio E. <i>Islet Regeneration and Pancreatic Duct Glands in Human and Experimental Diabetes.</i> Frontiers in Cell and Developmental Biology. 2022 Feb 4;10:814165	4	5.50 (2022)
9. de Jong IEM*, Overi D* , Carpino G, Gouw ASH, van den Heuvel MC, van Kempen LC, Mancone C, Onori P, Cardinale V, Casadei L, Alvaro D, Porte RJ, Gaudio E. <i>Persistent Biliary Hypoxia and Lack of Regeneration Are Key Mechanisms in the Pathogenesis of Post-transplant Non-anastomotic Strictures.</i> Hepatology. 2022 Apr;75(4):814-830 * co-primi autori	17	14 (2022)
10. Overi D , Carpino G, Cristoferi L, Onori P, Kennedy L, Francis H, Zucchini N, Rigamonti C, Viganò M, Floreani A, D'Amato D, Gerussi A, Venere R, Alpini G, Glaser S, Alvaro D, Invernizzi P, Gaudio E, Cardinale V, Carbone M. <i>Role of ductular reaction and ductular-canalicular junctions in identifying severe primary biliary cholangitis.</i> JHEP Reports. 2022 Aug 19;4(11):100556.	9	8.3 (2022)
11. Cardinale V, Carpino G, Overi D , Safarikia S, Zhang W, Kanke M, Franchitto A, Costantini D, Riccioni O, Nevi L, Chiappetta M, Onori P, Franchitto M, Bini S, Hung YH, Lai Q, Zizzari I, Nuti M, Nicoletti C, Checquolo S, Di Magno L, Giuli MV, Rossi M, Sethupathy P, Reid LM, Alvaro D, Gaudio E. <i>Human duodenal submucosal glands contain a defined stem/progenitor subpopulation with liver-specific regenerative potential.</i> Journal of Hepatology. 2023 Jan;78(1):165-179.	6	25.70 (2022)
12. Kendall T, Overi D , Guido M, Braconi C, Banales JM, Cardinale V, Gaudio E, Koerkamp BG, Carpino G. <i>Recommendations maximizing the clinical value of tissue in the management of patients with intrahepatic cholangiocarcinoma.</i> JHEP Reports. 2024 March (in press). doi: 10.1016/j.jhepr.2024.101067	/	8.3 (2022)

Complete list of publications in international, peer-reviewed journals

1. Kendall T, **Overi D**, Guido M, Braconi C, Banales JM, Cardinale V, Gaudio E, Koerkamp BG, Carpino G. Recommendations maximizing the clinical value of tissue in the management of patients with intrahepatic cholangiocarcinoma. *JHEP Reports.* 2024 Available Online March 12, 2024 (in press, journal pre-proof). doi: 10.1016/j.jhepr.2024.101067.
2. de Franchis V, Petrunaro S, Pizzichini E, Camerini S, Casella M, Somma F, Mandolini E, Carpino G, **Overi D**, Cardinale V, Facchiano A, Filippini A, Gaudio E, Fabrizi C, Giampietri C. Cholangiocarcinoma malignant traits are promoted by Schwann cells through TGF β signaling in a model of perineural invasion. *Cells.* 2024 Feb 20;13(5):366
3. O'Rourke CJ, Salati M, Rae C, Carpino G, Leslie H, Pea A, Prete MG, Bonetti LR, Amato F, Montal R, Upstill-Goddard R, Nixon C, Sanchon-Sanchez P, Kunderfranco P, Sia D, Gaudio E, **Overi D**, Cascinu S, Hogdall D, Pugh S, Domingo E, Primrose JN, Bridgewater J, Spallanzani A, Gelsomino F, Llovet JM, Calvisi DF, Boulter L, Caputo F, Lleo A, Jamieson NB, Luppi G, Dominici M, Andersen JB, Braconi C.

- Molecular portraits of patients with intrahepatic cholangiocarcinoma who diverge as rapid progressors or long survivors on chemotherapy. *Gut*. 2024 Feb 23;73(3):496-508
4. Gioia S, Carnevale R, Tavano D, **Overi D**, Ridola L, Nardelli S, Merli M, d'Amati G, Pellicelli A, Cardinale V, Giannelli V, Baiocchini A, Riggio O, Gaudio E, Carpino G. Association between gut-derived endotoxins and porto-sinusoidal vascular disorder with portal hypertension. *Alimentary Pharmacology & Therapeutics*. 2023 Dec;58(11-12):1205-1216.
 5. Zhang W, Wang X, Lanzoni G, Wauthier E, Simpson S, Ezzell JA, Allen A, Suitt C, Krolik J, Jhirad A, Dominguez-Bendala J, Cardinale V, Alvaro D, **Overi D**, Gaudio E, Sethupathy P, Carpino G, Adin C, Piedrahita JA, Matthews K, He Z, Reid LM. A postnatal network of co-hepato/pancreatic stem/progenitors in the biliary trees of pigs and humans. *NPJ Regenerative Medicine*. 2023 Aug 1;8(1):40
 6. Cardinale V, Carpino G, **Overi D**, Safarikia S, Zhang W, Kanke M, Franchitto A, Costantini D, Riccioni O, Nevi L, Chiappetta M, Onori P, Franchitto M, Bini S, Hung YH, Lai Q, Zizzari I, Nuti M, Nicoletti C, Checquolo S, Di Magno L, Giuli MV, Rossi M, Sethupathy P, Reid LM, Alvaro D, Gaudio E. Human duodenal submucosal glands contain a defined stem/progenitor subpopulation with liver-specific regenerative potential. *Journal of Hepatology*. 2023 Jan;78(1):165-179.
 7. Carpino G, **Overi D**, Onori P, Franchitto A, Cardinale V, Alvaro D, Gaudio E. Effect of Calcium-Sulphate-Bicarbonate Water in a Murine Model of Non-Alcoholic Fatty Liver Disease: A Histopathology Study. *International Journal of Molecular Sciences*. 2022 Sep 2;23(17):10065
 8. Zhang W, Lanzoni G, Hani H, Yi X, **Overi D**, Shi L, Simpson S, Allen A, Suitt C, Ezzell JA, Alvaro D, Cardinale V, Gaudio E, Carpino G, Prestwich G, Dominguez-Bendala J, Gerber D, Sethupathy P, Matthews K, Piedrahita J, Adin C, He Z, Wauthier E, Reid LM. Patch Grafting of Organoids of Stem/progenitors into Solid Organs can correct Genetic-Based Disease States. *Biomaterials*. 2022 Sep;288:121647.
 9. **Overi D**, Carpino G, Cristoferi L, Onori P, Kennedy L, Francis H, Zucchini N, Rigamonti C, Viganò M, Floreani A, D'Amato D, Gerussi A, Venere R, Alpini G, Glaser S, Alvaro D, Invernizzi P, Gaudio E, Cardinale V, Carbone M. Role of ductular reaction and ductular-canalicular junctions in identifying severe primary biliary cholangitis. *JHEP Reports*. 2022 Aug 19;4(11):100556.
 10. Macias RIR, Cardinale V, Kendall TJ, Avila MA, Guido M, Coulouarn C, Braconi C, Frampton AE, Bridgewater J, **Overi D**, Pereira SP, Rengo M, Kather JN, Lamarca A, Pedica F, Forner A, Valle JW, Gaudio E, Alvaro D, Banales JM, Carpino G. Clinical relevance of biomarkers in cholangiocarcinoma: critical revision and future directions. *Gut*. 2022 Aug;71(8):1669-1683
 11. Di Matteo S, Di Meo C, Carpino G, Zoratto N, Cardinale V, Nevi L, **Overi D**, Costantini D, Pinto C, Montanari E, Marzioni M, Maroni L, Benedetti A, Viola M, Coviello T, Matricardi P, Gaudio E, Alvaro D. Therapeutic effects of dexamethasone-loaded hyaluronan nanogels in the experimental cholestasis. *Drug Delivery and Translational Research*. 2022 Aug;12(8):1959-1973.
 12. **Overi D**, Carpino G, Moretti M, Franchitto A, Nevi L, Onori P, De Smaele E, Federici L, Santorelli D, Maroder M, Reid LM, Cardinale V, Alvaro D, Gaudio E. Islet Regeneration and Pancreatic Duct Glands in Human and Experimental Diabetes. *Frontiers in Cell and Developmental Biology*. 2022 Feb 4;10:814165.
 13. Zhang W, Lanzoni G, Hani H, **Overi D**, Cardinale V, Simpson S, Pitman W, Allen A, Yi X, Wang X, Gerber D, Prestwich G, Lozoya O, Gaudio E, Alvaro D, Tokaz D, Dominguez-Bendala J, Adin C, Piedrahita J, Matthews K, Sethupathy P, Carpino G, He Z, Wauthier E, Reid LM. Patch grafting, strategies for transplantation of organoids into solid organs such as liver. *Biomaterials*. 2021 Oct;277:121067.
 14. de Jong IEM*, **Overi D***, Carpino G, Gouw ASH, van den Heuvel MC, van Kempen LC, Mancone C, Onori P, Cardinale V, Casadei L, Alvaro D, Porte RJ, Gaudio E. Persistent Biliary Hypoxia and Lack of Regeneration Are Key Mechanisms in the Pathogenesis of Post-transplant Non-anastomotic Strictures. *Hepatology*. 2022 Apr;75(4):814-830
 15. Cristoferi L*, Calvaruso V*, **Overi D**, Viganò M, Rigamonti C, Degaspero E, Cardinale V, Labanca S, Zucchini N, Fichera A, Di Marco V, Leutner M, Venere R, Picciotto A, Lucà M, Mulinacci G, Palermo

- A, Gerussi A, D'Amato D, O'Donnell SE, Cerini F, De Benedettis C, Malinverno F, Ronca V, Mancuso C, Cazzagon N, Ciaccio A, Barisani D, Marzioni M, Floreani A, Alvaro D, Gaudio E, Invernizzi P, Carpino G, Nardi A, Carbone M. Accuracy of Transient Elastography in assessing fibrosis at diagnosis in naïve patients with Primary Biliary Cholangitis: a dual cut-off approach. *Hepatology*. 2021 Sep;74(3):1496-1508.
16. Carpino G, Cardinale V, Di Giamberardino A, **Overi D**, Donsante S, Colasanti T, Amato G, Mennini G, Franchitto M, Conti F, Rossi M, Riminucci M, Gaudio E, Alvaro D, Mancone C. Thrombospondin 1 and 2 along with PEDF inhibit angiogenesis and promote lymphangiogenesis in intrahepatic cholangiocarcinoma. *Journal of Hepatology*. 2021 Dec;75(6):1377-1386
 17. Casadio M*, Biancaniello F*, **Overi D**, Venere R, Carpino G, Gaudio E, Alvaro D, Cardinale V. Molecular landscape and therapeutic strategies in cholangiocarcinoma: An integrated translational approach towards precision medicine. *International Journal of Molecular Sciences*. 2021 May 25;22(11):5613.
 18. Di Matteo S, Nevi L, **Overi D**, Landolina N, Faccioli J, Giulitti F, Napoletano C, Oddi A, Marziani AM, Costantini D, De Rose AM, Melandro F, Bragazzi MC, Grazi GL, Berloco PB, Giuliente F, Donato G, Moretta L, Carpino G, Cardinale V, Gaudio E, Alvaro D. Metformin exerts anti-cancerogenic effects and reverses epithelial-to-mesenchymal transition trait in primary human intrahepatic cholangiocarcinoma cells. *Scientific Reports*. 2021 Jan 28;11(1):2557
 19. Nevi L, Di Matteo S, Carpino G, Zizzari I, Safarikia S, Ambrosino V, Costantini D, **Overi D**, Giacotti A, Monti M, Bosco D, De Peppo V, Oddi A, De Rose AM, Melandro F, Bragazzi MC, Faccioli J, Massironi S, Grazi GL, Panici PB, Berloco PB, Giuliente F, Cardinale V, Invernizzi P, Caretti G, Gaudio E, Alvaro D. DCLK1, a putative novel stem cell marker in human cholangiocarcinoma. *Hepatology*. 2021 Jan;73(1):144-159
 20. Safarikia S, Carpino G, **Overi D**, Cardinale V, Venere R, Franchitto A, Onori P, Alvaro D, Gaudio E. Distinct EpCAM-Positive Stem Cell Niches Are Engaged in Chronic and Neoplastic Liver Diseases. *Frontiers in Medicine*. 2020 Sep 2;7:479
 21. Carpino G, Del Ben M, Pastori D, Carnevale R, Baratta F, **Overi D**, Francis H, Cardinale V, Onori P, Safarikia S, Cammisotto V, Alvaro D, Svegliati-Baroni G, Angelico F, Gaudio E, Violi F. Increased liver localization of lipopolysaccharides in human and experimental non-alcoholic fatty liver disease. *Hepatology*. 2020 Aug 72(2):470-485
 22. **Overi D**, Carpino G, Franchitto A, Onori P, Gaudio E. Hepatocyte injury and hepatic stem cell niche in the progression of non-alcoholic steatohepatitis. *Cells*. 2020 Mar 2;3(3):590
 23. Carpino G, Nevi L, **Overi D**, Cardinale V, Lu WY, Di Matteo S, Safarikia S, Berloco PB, Venere R, Onori P, Franchitto A, Forbes SJ, Alvaro D, Gaudio E. Peribiliary gland niche participates in biliary tree regeneration in mouse and in human primary sclerosing cholangitis. *Hepatology*. 2020 Mar;71(3):972-989
 24. Carpino G*, **Overi D***, Melandro F, Grimaldi A, Cardinale V, Di Matteo S, Mennini G, Rossi M, Alvaro D, Barnaba V, Gaudio E, Mancone C. Matrisome analysis of intrahepatic cholangiocarcinoma unveils a peculiar cancer-associated extracellular matrix structure. *Clinical Proteomics*. 2019 Oct 30;16:37
 25. Franchitto A, Carpino G, Alisi A, De Peppo F, **Overi D**, De Stefanis C, Romito I, De Vito R, Caccamo R, Battaglia S, Salvatori A, Mosca A, Alterio A, Onori P, Gaudio E, Nobili V. The Contribution of the Adipose Tissue-Liver Axis in Pediatric Patients With NAFLD After Laparoscopic Sleeve Gastrectomy. *Journal of Pediatrics*. 2019 Sep 13. pii: S0022-3476(19)30889-3
 26. Franchitto A, **Overi D**, Mancinelli R, Mitterhofer AP, Muiesan P, Tinti F, Umbro I, Hübscher SG, Onori P, Gaudio E, Carpino G. Peribiliary gland damage due to liver transplantation involves peribiliary vascular plexus and vascular endothelial growth factor. *European Journal of Histochemistry*. 2019 May 10;63:3022
 27. De Jong IEM, Matton APM, van Praagh JB, van Haaften WT, Wiersema-Buist J, van Wijk LA, Oosterhuis D, Iswandana R, Suriguga S, **Overi D**, Lisman T, Carpino G, Gouw ASH, Olinga P, Gaudio

- E, Porte RJ. Peribiliary glands are key in regeneration of the human biliary epithelium after severe bile duct injury. *Hepatology*. 2019 Apr;69(4):1719-1734.
28. Costantini D, **Overi D**, Casadei L, Cardinale V, Nevi L, Carpino G, Di Matteo S, Safarikia S, Valerio M, Melandro F, Bizzarri M, Manetti C, Berloco PB, Gaudio E, Alvaro D. Simulated microgravity promotes the formation of tridimensional cultures and stimulates pluripotency and a glycolytic metabolism in human hepatic and biliary tree stem/progenitor cells. *Scientific Reports*. 2019 Apr 3;9(1):5559.
 29. Carpino G, Cardinale V, Folseraas T, **Overi D**, Grzyb K, Costantini D, Berloco PB, Di Matteo S, Karlsen TH, Alvaro D, Gaudio E. Neoplastic transformation of peribiliary stem cell niche in cholangiocarcinoma arisen in primary sclerosing cholangitis. *Hepatology*. 2019 Feb;69(2):622-638.
 30. Di Matteo S, Nevi L, Costantini D, **Overi D**, Carpino G, Safarikia S, Giulitti F, Napoletano C, Manzi E, De Rose AM, Melandro F, Bragazzi M, Berloco PB, Giuliani F, Grazi G, Giorgi A, Cardinale V, Adorini L, Gaudio E, Alvaro D. The FXR agonist obeticholic acid inhibits the cancerogenic potential of human cholangiocarcinoma. *PLoS One*. 2019 Jan;14(1):e0210077
 31. **Overi D**, Carpino G, Cardinale V, Franchitto A, Safarikia S, Onori P, Alvaro D, Gaudio E. Contribution of resident stem cells to liver and biliary tree regeneration in human diseases. *International Journal of Molecular Sciences*. 2018;19(10):2917
 32. Cardinale V, Bragazzi MC, Carpino G, Di Matteo S, **Overi D**, Nevi L, Gaudio E, Alvaro D. Intrahepatic cholangiocarcinoma: review and update. *Hepatoma research*. 2018;4:20
 33. Mancinelli R, Olivero F, Carpino G, **Overi D**, Rosa L, Lepanto MS, Cutone A, Franchitto A, Alpini G, Onori P, Valenti P, Gaudio E. Role of lactoferrin and its receptors on biliary epithelium. *Biometals*. 2018 Jun 31(3):369-379
 34. Carpino G, Cardinale V, Folseraas T, **Overi D**, Floreani A, Franchitto A, Onori P, Cazzagon N, Berloco PB, Karlsen TH, Alvaro D, Gaudio E. Hepatic Stem/Progenitor Cell Activation Differs between Primary Sclerosing and Primary Biliary Cholangitis. *American Journal of Pathology*. 2018 Mar;188(3):627-639
 35. Nobili V, Carpino G, De Peppo F, Caccamo R, Mosca A, Romito I, **Overi D**, Franchitto A, Onori P, Alisi A, Gaudio E. Laparoscopic Sleeve Gastrectomy Improves Nonalcoholic Fatty Liver Disease-Related Liver Damage in Adolescents by Reshaping Cellular Interactions and Hepatic Adipocytokine Production. *Journal of Pediatrics*. 2018 Mar;194:100-108.e3
 36. Del Ben M*, **Overi D***, Polimeni L, Carpino G, Labbadia G, Baratta F, Pastori D, Noce V, Gaudio E, Angelico F, Mancone C. Overexpression of the Vitronectin V10 Subunit in Patients with Nonalcoholic Steatohepatitis: Implications for Noninvasive Diagnosis of NASH. *International Journal of Molecular Sciences*. 2018 Feb 18;19(2). pii: E603
 37. Carpino G, Pastori D, Baratta F, **Overi D**, Labbadia G, Polimeni L, Di Costanzo A, Pannitteri G, Carnevale R, Del Ben M, Arca M, Violi F, Angelico F, Gaudio E. PNPLA3 variant and portal/periportal histological pattern in patients with biopsy-proven non-alcoholic fatty liver disease: a possible role for oxidative stress. *Scientific Reports*. 2017 Nov 17;7(1):15756
 38. Carnevale G, Carpino G, Cardinale V, Pisciotta A, Riccio M, Bertoni L, Gibellini L, De Biasi S, Nevi L, Costantini D, **Overi D**, Cossarizza A, De Pol A, Gaudio E, Alvaro D. Activation of Fas/FasL pathway and the role of c-FLIP in primary culture of human cholangiocarcinoma cells. *Scientific Reports*. 2017 Oct 31;7(1):14419
 39. Della Corte C, Carpino G, De Vito R, De Stefanis C, Alisi A, Cianfarani S, **Overi D**, Mosca A, Stronati L, Cucchiara S, Raponi M, Gaudio E, Byrne CD, Nobili V. Docosahexanoic Acid Plus Vitamin D Treatment Improves Features of NAFLD in Children with Serum Vitamin D Deficiency: Results from a Single Centre Trial. *PLoS One*. 2016 Dec 15;11(12):e0168216
 40. Carpino G, Renzi A, Cardinale V, Franchitto A, Onori P, **Overi D**, Rossi M, Berloco PB, Alvaro D, Reid LM, Gaudio E. Progenitor cell niches in the human pancreatic duct system and associated pancreatic duct glands: an anatomical and immunophenotyping study. *Journal of Anatomy*. 2016 Mar;228(3):474-86

Conference abstracts

1. **Overi D**, Franchitto A, Cardinale V, Reid LM, Alvaro D, Carpino G. Progenitor cell niches in the duodenum and pancreatic duct system and pancreatic endocrine fate commitment. *Ital J Anat Embryol. 2023 127(1)Supplement: 41.*
2. Carpino G, **Overi D**, Onori P, Lleo A, Macias RIR, Acedo P, Izquierdo-Sanchez L, Garcia-Sampedro A, Pereira SP, Cardinale V, Alvaro D, Banales JM, Gaudio E. Characterization of cholangiocarcinoma heterogeneity: integration of digital histologic whole slide imaging with spatial molecular profiling. *Ital J Anat Embryol. 2023 127(1)Supplement: 48.*
3. Gioia S, Carnevale R, Tavano D, **Overi D**, Ridola L, Nardelli S, Merli M, d'Amati G, Pellicelli A, Cardinale V, Giannelli V, Baiocchini A, Carpino G, Riggio O, Gaudio E. Role of gut-derived endotoxins in porto-sinusoidal vascular disease. *Journal of Hepatology. 2023;78:S994-S995.*
4. **Overi D**, Franchitto A, Cardinale V, Carbone M, Alvaro D, Invernizzi P, Carpino G. Hepatic stem/progenitor cell activation and ductular-canalicular junctions in primary biliary cholangitis. *Ital J Anat Embryol. 2022 126(1)Supplement: 259*
5. Carpino G, Cardinale V, Franchitto A, **Overi D**, Reid L, Alvaro D, Gaudio E. A stem/progenitor cell population with liver regenerative potency is harbored in human duodenal submucosal glands. *Ital J Anat Embryol. 2022 126(1)Supplement: 105.*
6. de Jong I, Bodewes SB, **Overi D**, van Leeuwen OB, van den Heuvel M, Carpino G, Gaudio E, de Meijer VE, Porte RJ. Assessment of bile duct injury of donor livers during ex situ normothermic machine perfusion. *Transplantation 2022;106:87-87. Supplement 8*
7. de Jong I, **Overi D**, Carpino G, Gouw ASH, van den Heuvel M, Mancone C, Onori P, Cardinale V, Casadei L, Alvaro D, Porte RJ, Gaudio E. Persistent biliary hypoxia and lack of regeneration are key mechanisms in the pathogenesis of non-anastomotic strictures after liver transplantation. *Transplantation 2022;106:91-91. Supplement 8*
8. de Jong I, **Overi D**, Carpino G, Gouw ASH, van den Heuvel M, Mancone C, Onori P, Cardinale V, Casadei L, Alvaro D, Porte RJ, Gaudio E. Persistent biliary hypoxia and lack of regeneration are key mechanisms in the pathogenesis of non-anastomotic strictures after liver transplantation. *Transplant international 2021 Aug;34 SI. Meeting Abstract: OP198.*
9. Cristoferi L, Nardi A, Viganò M, Rigamonti C, Degasperis E, Cardinale V, Labanca S, Zucchini N, Leutner M, Venere R, Picciotto A, Cazzagon N, Lucà M, **Overi D**, Gerussi A, D'Amato D, O'Donnell SE, Cerini F, De Benedittis C, Cadamuro M, Malinverno F, Floreani A, Alvaro D, Gaudio E, Invernizzi P, Carpino G, Carbone M. Accuracy of liver stiffness measurement in assessing liver fibrosis in naive patients with primary biliary cholangitis. *Journal of Hepatology. 2020;73:S478-S479.*
10. Carpino G, Franchitto A, Nevi L, **Overi D**, Cardinale V, Forbes SJ, Alvaro D, Gaudio E. Peribiliary gland niche participates in biliary tree regeneration and is driven by Wnt and Notch pathways. *Ital J Anat Embryol. 2019;124(Suppl 1).*
11. de Jong IEM, Matton APM, van Praagh JB, van Haften WT, Wiersema-Buist J, van Wijk LA, Oosterhuis D, Iswandana R, Suriguga S, **Overi D**, Lisman T, Carpino G, Gouw ASH, Olinga P, Gaudio E, Porte RJ. Peribiliary glands are key in regeneration of the biliary epithelium after severe ischemic bile duct injury during liver transplantation. *Transplantation. 2019;103(8)SI. Meeting Abstract: O-001.*
12. Nevi L, Carpino G, Cardinale V, Lu WY, Di Matteo S, **Overi D**, Safarikia S, Costantini D, Melandro F, Berloco PB, Gaudio E, Forbes S, Alvaro D. Biliary tree stem cells play a key role in the regeneration of biliary epithelium after injury. *Digestive and Liver Disease 51 (2019) e77.*
13. Carpino G, Cardinale V, Safarikia S, **Overi D**, Costantini D, Lu WY, Riccioni O, Nevi L, Zhang W, Melandro F, Zizzarri I, Nuti M, Moretti M, Maroder M, Berloco PB, Forbes SJ, Reid LM, Gaudio E, Alvaro D. Human duodenal submucosal glands contain stem cells with potential for liver and pancreatic regenerative medicine. *Digestive and Liver Disease 51 (2019) e3.*

14. Cristoferi L, Carpino G, Cardinale V, Rigamonti C, **Overi D**, Zucchini N, Leutner M, Viganò M, Nardi A, Gerussi A, Ronca V, Cadamuro M, Bonato G, Alvaro D, Gaudio E, Invernizzi P, Mellis GF, Carbone M. Ductular reaction, intermediate hepatocytes and fibrosis extension correlate with prediction of treatment failure to ursodeoxycholic acid in primary biliary cholangitis. *Digestive and Liver Disease* 51 (2019) e1.
15. **Overi D**, Carpino G, Mancinelli R, Cardinale V, Karlsen TH, Alvaro D, Onori P. Biliary tree stem cells and peribiliary glands are involved in primary sclerosing cholangitis and cholangiocarcinoma. *Ital J Anat Embryol.* 2018 123 (Suppl 1):164
16. Carpino G, Franchitto A, **Overi D**, Nobili V, Gaudio E. Hepatic stem cells and adipocytokines in nonalcoholic fatty liver disease pediatric patients after laparoscopic sleeve gastrectomy. *Ital J Anat Embryol.* 2018 123 (Suppl 1):45
17. **Overi D**, Cardinale V, Folseraas T, Carpino G, Grzyb K, Costantini D, Berloco PB, Alvaro D, Gaudio E. Peribiliary glands and biliary tree stem cells are involved in the pathogenesis of cholangiocarcinoma arising in patients affected by primary sclerosing cholangitis. *J Hepatol.* 2018 68(Suppl 1):S674
18. Costantini D, Carpino G, Cardinale V, **Overi D**, Nevi L, Di Matteo S, Safarikia S, Melandro F, Berloco PB, Gaudio E, Alvaro D. Different micro-environmental factors induce proliferation, epithelial-mesenchymal transition (EMT) and senescence of primary cultures of human biliary tree stem/progenitor cells (hBTSCs), recapitulating the pathological features typical of human cholangiopathies. *J Hepatol.* 2018 68(Suppl 1):S164
19. Carpino G, Franchitto A, Cardinale V, Folseraas T, **Overi D**, Karlsen TH, Alvaro D, Gaudio E. Hepatic stem/progenitor cell activation differs between primary sclerosing and primary biliary cholangitis. *Ital J Anat Embryol.* 2017 122(Suppl 1):49
20. Carpino G, Pastori D, Onori P, Baratta F, **Overi D**, Labbadia G, Polimeni L, Di Costanzo A, Carnevale R, Violi F, Del Ben M, Arca M, Angelico F, Gaudio E. Hepatic progenitor cells and histological pattern in non-alcoholic fatty liver disease: a possible role for PNPLA3 variant and oxidative stress. *Eur J Histochem.* 2017 61(Suppl 2):3-4
21. Renzi A, Carpino G, **Overi D**, Venter J, Valenti P, Alpini G, Gaudio E. Lactoferrin regulate biliary epithelium growth and the activation of hepatic progenitor cell niche. *Ital J Anat Embryol.* 2015 120(Suppl 1):126.

Participation to national and international conferences.

- European Network for the Study of Cholangiocarcinoma (ENS-CCA) biennial meeting & joint CA18122 COST Action meeting. July 7-8, 2022.
- CA18122 WG/MC Hybrid Meeting. September 1-3, 2021.
- AMMF 2021 European Cholangiocarcinoma Conference, May 13-14, 2021.
- Unravelling the Complexity of Biological Systems by Transmission Electron Microscopy. Lake Como School of Advanced Studies, April 19-20, 2021.
- Cholangiocarcinoma Foundation Annual Conference, March 31 – April 2, 2021.
- EASL Digital Liver Cancer Summit. February 5-6, 2021.
- 52nd AISF Annual Meeting, Associazione Italiana per lo Studio del Fegato. February 21-22, 2019, Rome, Italy.
- II Biennial Congress of the European Network for the Study of Cholangiocarcinoma (ENS-CCA). June 21-23, 2018, Rome, Italy.

I authorize the processing of personal data present in the CV pursuant to Legislative Decree 101/2018 and of the GDPR (EU Regulation 2016/679).

Il presente documento è composto di N=15 pagine. Ai sensi dell'art. 46 e 47 del DPR 445/2000, dichiaro che le informazioni inserite nel mio CV corrispondono a verità, essendo consapevole dell'eventuale applicazione dell'art.76 dello stesso articolo in caso di dichiarazione mendace.