CURRICULUM VITAE **DR. FRANCESCO RUSSO**

INFORMAZIONI PERSONALI

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BRIEF CURRICULUM VITAE

Name: **Francesco Russo**
Sex Male;
Date and Place of Birth: November 02, 1958, Stigliano (MT), Italy;
Citizenship: Italian;
Address: Via Turi 27 I.R.C.C.S. "Saverio de Bellis" I-70013 Castellana Grotte (Bari) Italy, Tel. +390804994129, Fax +390804994313, E-mail: francesco.russo@irccsdebellis.it

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EDUCATION

1988: M.D. degree (Laurea in Medicina e Chirurgia), School of Medicine "University of Bari", Bari, Italy.

1992: Postgraduate, School of Specialization in Gastroenterology, M.D., School of Medicine "University of Bari", Bari, Italy

PROFESSIONAL APPOINTMENTS

1990-1993 "Ad hoc" project contracts at the Laboratory of Experimental Biochemistry National Institute for Digestive Diseases, I.R.C.C.S. "Saverio de Bellis" Castellana Grotte (Bari)

1993-present Staff Physician, Senior Investigator – previous Laboratory of Experimental Biochemistry now Laboratory of Nutritional Pathophysiology of National Institute of Digestive Diseases, I.R.C.C.S. "Saverio de Bellis" Castellana Grotte (Bari)

2001-2004 Responsible for the Laboratory of Experimental Biochemistry Area. (Struttura Operativa Semplice) "**Non invasive diagnostic procedures in hepato-gastroenterology**".

2004-2013 Responsible for the Laboratory of Experimental Biochemistry Area (Struttura Operativa Semplice) "**Non-invasive diagnostic procedures and functional food evaluation in hepato-gastroenterology**".

2013-present Responsible for the **Laboratory of Nutritional Pathophysiology** and the "**Celiac Disease and Functional GI disorders outpatient clinic**" of IRCCS S. De Bellis.

RESEARCH ACTIVITY

- Celiac Disease and gluten related disorders
- Constipation
- Gastric diseases and Helicobacter pylori infection of gastric mucosa with a particular interest on the role of gut peptides;
- Functional foods (prebiotics and probiotics) and their impact on cell proliferation of the gastrointestinal mucosa;
- Non-invasive diagnostic procedures in hepatogastroenterology by13C breath testing and IRMS;

PARTECIPATION AT PROJECTS WITH MINISTRY OF HEALTH FUNDS (RICERCA FINALIZZATA MINISTERO DELLA SALUTE).

1994 Prog. Fin. "Alterazioni dell'Assorbimento e della Motilità dell'apparato gastroenterico nell'invecchiamento: Ruolo degli ormoni steoridei sessuali" N° 500.4/ICS 9.1/RF91.1286. *Aging and alterations of gastrointestinal absorption and motility: role of sexual steroid hormones*. (Operative unit and editor of the final relation).

1998. Prog. Fin. "*Helicobacter pylori*: Diagnosi non invasiva ed economica di infezione e studio del meccanismo patogenetico della trasformazione neoplastica della mucosa gastrica indotta dal batterio" PF17. *Helicobacter pylori: Non-invasive and economic procedures for diagnosis of infection and evaluation of bacterial pathogenetic mechanisms in the neoplastic transformation of the gastric mucosa.* (Operative unit).

2000 Prog. Fin. "Infezione da *Helicobacter pylori*, proliferazione cellulare ed alterazione del sistema emostatico: significato fisiopatologico" N° ICS160.2/RF98.59. *Helicobacter pylori infection, cell proliferation and alterations of the haemostatic system*: *a pathophysiological meaning*. (Person in charge of the Lab. of Biochemistry operative unit and

editor of the final relation)

2001 Prog. Fin. "Attività della sfingomielinasi nelle feci e nella mucosa colo-rettale. Studio *in vivo* ed in un modello animale" N° ICS 160.2/RF00.118 *The activity of the sphyngomielinase enzyme in faeces and colorectal mucosa: a study performed "in vivo" and in an "animal model"*. (Operative unit and editor of the final relation)

2005 Prog. Fin. "Effetti di una dieta con pasta arricchita di inulina in giovani volontari sani" nell'ambito del progetto "Valutazione di componenti tossici negli alimenti e studio dei cibi funzionali in vivo ed in vitro" PFin Min Salute #132 "*Effects of the inulin-enriched pasta on young healthy volunteers*". Branch of the project "*Evaluation of toxic constituents in aliments and "in vivo" and "in vitro" evaluation of functional foods*. (Person in charge of the Lab of Biochemistry operative unit and editor of the final relation)

2008 Prog. Fin. "Il rispetto della Qualità della Vita nel paziente oncologico fragile. Il ruolo della riabilitazione oncologica: dall'approccio multidisciplinare alle Linee Guida." " PFin Min Salute R.O Strategici 17/7 *"Evaluation and treatment of dyspeptic symptoms in oncological frail patients with extraintestinal cancer in chemotherapy. The evaluation of functional, biochemical and immunological functions and of quality of life."* (Person in charge of the Lab of Biochemistry operative unit)

Dr. Francesco Russo 10 most cited papers

1. EGF, TGF-alpha, and EGF-R in human colorectal adenocarcinoma. Author(s): Messa C; **Russo F**; Caruso MG; et al. **Times Cited: 161** DOI: 10.1080/028418698429595
2. Clarithromycin-resistant genotypes and eradication of Helicobacter pylori. Author(s): De Francesco V; Margiotta M; Zullo A; et al. **Times Cited: 97** DOI:10.7326/0003-4819-144-2-200601170-00006
3. Clarithromycin-resistant genotypes and eradication of Helicobacter pylori Author(s): De Francesco, V.; Margiotta, M.; Zullo, A.; et al. Source: Annals of Internal Medicine Volume: 144 Issue:2 Pages: 94-100 Published: 2006 **Times Cited: 97**
4. Sequential treatment for Helicobacter pylori does not share the risk factors of triple therapy failure. Author(s): De Francesco V; Zullo A; Margiotta M; et al. **Times Cited: 69** DOI: 10.1046/j.1365-2036.2004.01818.x
5. The influence of Lactobacillus brevis on ornithine decarboxylase activity and polyamine profiles in Helicobacter pylori-infected gastric mucosa. Author(s): Linsalata M; Russo F; Berloco P; et al. **Times Cited: 51** DOI:10.1111/j.1083-4389.2004.00214.x
6. Circulating cytokines and gastrin levels in asymptomatic subjects infected by Helicobacter pylori (H. pylori). Author(s): Russo F; Jirillo E; Clemente C; et al. **Times Cited: 37** DOI:10.1081/IPH-100102563
7. Polyamines,diamineoxidase, and ornithine decarboxylase activity in colorectal cancer and in normal surrounding mucosa Author(s): Linsalata M; Russo F; Cavallini A;et al. **Times Cited: 37** DOI:10.1007/BF02238593
8. Circulating cytokines and gastrin levels in asymptomatic subjects infected by Helicobacter pylor i(H-pylori) Author(s):Russo,F.; Jirillo,E.; Clemente, C.; et al. Source: Immunopharmacology and Immunotoxicology Volume: 23 Issue:1 Pages: 13-24 Published:2001 **Times Cited: 37** DOI:10.1081/iph-100102563
9. Prognostic value of cytosolic estrogen receptors in human colorectal carcinoma and surrounding mucosa. Preliminary results. Author(s):Di Leo A; Messa C; Russo F; et al. **Times Cited: 31** DOI:10.1007/BF02088144
10. Nutritional factors and polyamine metabolism in colorectal cancer. Author(s): Linsalata M; Russo F **Times Cited: 28** DOI:10.1016/j.nut.2007.12.014

Source ResearcherID – Thomson Reuters

Personale del Laboratorio di Fisiopatologia della Nutrizione:

Dr. Francesco RUSSO	Dirigente Medico resp.le Laboratorio (1465 citazioni h index 20)
Dr. Giuseppe RIEZZO	Dirigente Medico (1318 citazioni h index 21)
Dr. Michele LINSALATA	Dirigente Biologo (834 citazioni h index 19)
Dr.ssa Caterina CLEMENTE	Dirigente Biologo (302 citazioni h index 12)
Dr.ssa Antonella ORLANDO	Contrattista Biologa (342 citazioni h index 14)
Dr.ssa Benedetta D'ATTOMA	Tecnico di laboratorio biomedico (184 citazioni h index 8)
Dr.ssa Manuela MARTULLI	Borsista Tecnico di laboratorio biomedico (// citazioni h index //)

Foto 1 Dr. Francesco RUSSO

Foto 2 Personale del Lab. Fisiopatologia della Nutrizione

INTRODUCTION TO THE "LABORATORY OF NUTRITION PATHOPHYSIOLOGY" ACTIVITIES

The medical research in Gastroenterology is becoming increasingly complex thus requiring synergy in resources and methodologies to ensure good levels of publication on international journals.

The research "Laboratory of Nutritional Pathophysiology" of IRCCS "Saverio de Bellis" along with its clinical interface the "Celiac Disease and Functional GI disorders outpatient clinic" is a modern and well-equipped laboratory and has two main tasks:

1) The **clinical activity** (diagnosis, therapy and management) is aimed to the early detection and prevention of complications of digestive diseases, either organic (eg. celiac disease) or functional (such as irritable bowel syndrome) that may require an in-depth pathophysiology approach.
2) The **research activity** is focused on all the ethiopathological and clinical aspects of celiac disease and gluten related disorders, intestinal motor disorders related to dyspeptic syndrome, gastroparesis, Helicobacter pylori infection, diarrhea and constipation with a peculiar attention to the role of GI peptides. Besides, functional food, prebiotics and probiotics are evaluated concerning their therapeutic potentialities and their effects on gastrointestinal proliferation by in vivo and in vitro studies

The highly educated staff at the Laboratory of Nutritional Pathophysiology consists of two medical doctors (gastroenterologist), three biology doctors, and two laboratory assistants.

Diagnostic tests currently available:

1. ^{13}C Breath Tests by IRMS
   a. ^{13}C Urea Breath Test for H. pylori infection;
   b. Study of gastric emptying of solid and liquid meals by ^{13}C octanoic acid and ^{13}C acetate;
   c. Evaluation of liver function by ^{13}C aminopirine and ^{13}C methacetine;
2. Evaluation of intestinal permeability by lactulose / mannitol
3. Halimeter Test for the evaluation of volatile sulfur compounds (VSC) (test for halitosis)
4. Evaluation of gut peptides
5. Electrogastrogram for gastric electrical activity evaluation
6. Administration of questionnaires for GI disorders and diary for the assessment of bowel habits

BIBLIOGRAFIA (Ultime 10 pubblicazioni)/ PUBLICATIONS (last 10 publications)

1: **Russo F**, Chimienti G, Linsalata M, Clemente C, Orlando A, Riezzo G. The obestatin/ghrelin ratio and ghrelin genetics in adult celiac patients before and after a gluten-free diet, in irritable bowel syndrome patients and healthy individuals. Eur J Gastroenterol Hepatol. **2016** Oct 12. [Epub ahead of print] PubMed PMID: 27750262.

2: **Russo F**, Chimienti G, Clemente C, Riezzo G, D'Attoma B, Martulli M. Gastric Activity and Gut Peptides in Patients With Functional Dyspepsia: Postprandial Distress Syndrome Versus Epigastric Pain Syndrome. J Clin Gastroenterol. **2016** Apr 16. [Epub ahead of print] PubMed PMID: 27092429.

3: Orlando A, Linsalata M, **Russo F**. Antiproliferative effects on colon adenocarcinoma cells induced by co-administration of vitamin K1 and Lactobacillus rhamnosus GG. Int J Oncol. **2016** Jun;48(6):2629-38. doi: 10.3892/ijo.2016.3463. PubMed PMID: 27035094.

4: Tutino V, Orlando A, **Russo F**, Notarnicola M. Hydroxytyrosol Inhibits Cannabinoid CB1 Receptor Gene Expression in 3T3-L1 Preadipocyte Cell Line. J Cell Physiol. **2016** Feb;231(2):483-9. doi: 10.1002/jcp.25094. PubMed PMID: 26189725.

5: **Russo F**, Chimienti G, Clemente C, Ferreri C, Orlando A, Riezzo G. A possible role for ghrelin, leptin, brain-derived neurotrophic factor and docosahexaenoic acid in reducing the quality of life of coeliac disease patients following a gluten-free diet. Eur J Nutr. **2015** Dec 21. [Epub ahead of print] PubMed PMID: 26687809.

6: Orlando A, Linsalata M, Tutino V, D'Attoma B, Notarnicola M, **Russo F**. Vitamin K1 exerts antiproliferative effects and induces apoptosis in three differently graded human colon cancer cell lines. Biomed Res Int. **2015**;2015:296721. doi: 10.1155/2015/296721. PubMed PMID: 26075224; PubMed Central PMCID: PMC4449879.

7: Linsalata M, Orlando A, Tutino V, Notarnicola M, D'Attoma B, **Russo F**. Inhibitory effect of vitamin K1 on growth and polyamine biosynthesis of human gastric and colon carcinoma cell lines. Int J Oncol. **2015** Aug;47(2):773-81. doi: 10.3892/ijo.2015.3033. PubMed PMID: 26043965.

8: Russo F, Linsalata M, Orlando A. Probiotics against neoplastic transformation of gastric mucosa: effects on cell proliferation and polyamine metabolism. World J Gastroenterol. **2014** Oct 7;20(37):13258-72. doi: 10.3748/wjg.v20.i37.13258. Review. PubMed PMID: 25309063; PubMed Central PMCID: PMC4188884.

9: Riezzo G, Ferreri C, Orlando A, Martulli M, D'Attoma B, **Russo F**. Lipidomic analysis of fatty acids in erythrocytes of coeliac patients before and after a gluten-free diet intervention: a comparison with healthy subjects. Br J Nutr. **2014** Dec 14;112(11):1787-96. doi: 10.1017/S0007114514002815. PubMed PMID: 25266177.

10: **Russo F**, Chimienti G, Clemente C, D'Attoma B, Linsalata M, Orlando A, De Carne M, Cariola F, Semeraro FP, Pepe G, Riezzo G. Adipokine profile in celiac patients: differences in comparison with patients suffering from diarrhea-predominant IBS and healthy subjects. Scand J Gastroenterol. **2013** Dec;48(12):1377-85. doi: 10.3109/00365521.2013.845907. PubMed PMID: 24164320.