

## ***Curriculum Vitae Prof. Alessandro Lanza***

Place and date of birth Atripalda (AV), 14 September 1980

Residence Via Luigi Pirandello 7, 83035 - Grottaminarda (AV), ITALY

Current position: Associate Professor SSD MED / 28 - Oral Diseases

Multidisciplinary Department of Medical, Surgical and Dental Sciences,

Campania University: Luigi Vanvitelli

### **Academic Life**

From 07/28/2017 to 07/28/2023 Qualified as First-level Full Professor Competition Sector 06 / F1  
ODONTOSTOMATOLOGICAL DISEASES;

From 1st November 2014 Associate Professor MED / 28 - Oral Diseases at the Multidisciplinary Department of Medical, Surgical and Dental Sciences of the Campania University: Luigi Vanvitelli;

2005 (1 October) - 2014 (30 October) MED / 28 University Researcher - Oral Diseases,

Multidisciplinary Department of Medical, Surgical and Dental Sciences, Campania University: Luigi Vanvitelli;

2005-2008 School of Specialization in Oral Surgery, Faculty of Medicine and Surgery

Campania University: Luigi Vanvitelli;

Registration Register of Doctors Surgeons and Dentists of Avellino N.262

1999-2004 Degree Course in Dentistry and Dental Prosthetics

Faculty of Medicine and Surgery, Campania University: Luigi Vanvitelli;

Graduate Diploma with 110/110 marks and honors

Commitment of the commission and dignity of the press conferred to the thesis: "Design of a new and innovative implant system and study of its mechanical characteristics through 3D-FEA"

## ***Teaching activity***

### **Frontal Teaching and Internship**

The Prof. Lanza Alessandro provides effective service as a University Researcher (until 30 October 2014) and Associate Professor (from 1 November 2014) for the MED28 Disciplinary Scientific Sector "Oral Disease" at the Faculty of Medicine and Surgery of the Campania University: Luigi Vanvitelli;

At the Faculty of Medicine and Surgery of the aforementioned University, the course of the teaching of "Oral Diseases" has been entrusted to the Degree Course for the Health Professions in Speech Therapy, for the AA.AA. 2005/06, 2006/07 and 2007/08.

At the same Faculty, the aforementioned didactic and theoretical-practical activities were entrusted in the following integrated courses of the Degree Course in Dentistry and Old Dental Prosthetics, for the periods indicated:

"Embryogenesis of the face and its deviations" (C.I. Oral Sciences II) - (V Year-I Sem.), For the AA.AA. 2006/07 and 2007/08;

"C.I. Oral Sciences II" - (V Year-II Sem.), For AA.AA. 2006/07 and 2007/08.

In addition, at the same Faculty, the aforementioned didactic and theoretical-practical activities were entrusted in the following integrated courses of the Degree Course in Dentistry and New Dental Prosthetics, for the periods indicated:

"Access to oral disciplines - Internship" (C.I. Access to oral disciplines) - (I Year-I Sem.), For AA.AA. 2006/07 and 2007/08;

"Oral Sciences" (C.I. Oral Sciences I) - (III Year-I Sem.), For the AA.AA. 2006/07 and 2007/08;

"Internship- Oral Sciences" (C.I. Oral Sciences II) - (IV Anno-I Sem.), For the AA.AA. 2006/07 and 2007/08;

"Internship-Clinical odontostomatologica" (C.I. Clinical odontostomatologica III) - (IV Anno-II Sem.), For the AA.AA. 2006/07 and 2007/08.

"Dental Prosthetics" (C.I. II-III Dental Prosthetics) - (III-IV-V Year) for the academic year 2008/2009 to date.

"Prosthetic and laboratory technologies" from 2010 to today

"Dental prosthesis in the C.I. of Implantology from 2010 to today

"Dental prosthesis" in C.I. of Oral Disciplines from 2010 to today

"Surgical oral pathology" at the School of Specialization in oral surgery from 2008 to today

List of Masters and Postgraduate Courses of which he is a teaching body and a board of directors:

Type of Title Academic Year

Advanced course: Special Biomechanics with the help of miniscrews 2014/15

Advanced course: Diagnosis and orthodontic technique 2014/15

Advanced course: Diagnosis, technique and hints of orthodontic therapy 2015/16

Advanced course: Occlusion and Posture: stabilometric and postural techniques 2014 / 15

Performance course: Direct and indirect restoration for the anterior and posterior sectors 2016 / 17

Master level: Philosophy and fundamental concepts of the Straight Wire MBT technique. New diagnostic and therapeutic protocols 2014 / 15

Master level II: Excellence in Orthodontics Step by Step: the Mirabella Straight Wire technique 2015 / 16

Master level II: Oral Implantology 2015/16.

## ***Assistance activity***

The Prof. Lanza Alessandro has carried out from 1-10-2005 to 30-05-2008 as a medical manager at the Department of Dental Clinic in the Department of Dentistry of the Campania University: Luigi Vanvitelli. From 1-06-2008 to today the Prof. Lanza A. following his specific request and with the resolution of the D.G. No. 451 of May 30, 2008, is assigned for the performance of care, in the service of implantology related to the Department of Dentistry of the same company. From January 2013 to today the Prof. Lanza A. as a result of departmental requests and requirements, with resolution No. 2013, is assigned for the performance of care, in the service of Dental Prosthesis related to the Department of Dentistry of the same Campania University: Luigi Vanvitelli.

## ***INTERNATIONAL JOURNAL PUBLICATIONS WITH IMPACT FACTOR***

1. Papaccio G, Latronico MV, Graziano A, Lanza A, Pedullà M. Tacrolimus, but not cyclosporine A, significantly increases expression of ICAM-1 and IFN-gamma in the NOD mouse. *J Cell Biochem.* 2001; Suppl 36:107-16.
2. Pannone G, Bufo P, Caiaffa MF, Serpico R, Lanza A, Lo Muzio L, Rubini C, Staibano S, Petruzzi M, De Benedictis M, Tursi A, De Rosa G, Macchia L. Cyclooxygenase-2 expression in oral squamous cell carcinoma. *Int J Immunopathol Pharmacol.* 2004; 17:273-82.
3. Lanza A, Aversa R, Rengo S, Apicella D, Apicella A. 3D FEA of cemented steel, glass and carbon posts in a maxillary incisor. *Dent Mater.* 2005; 21:709-15.
4. Simeone M, Lanza A, Rengo S, Aversa R, Apicella D, Apicella A. Inlay shading effect on the photopolymerization kinetic of a dental composite material used as bonding system in an indirect restoration technique. *Dent Mater.* 2005; 21:689-94.
5. Apicella A, Simeone M, Aversa R, Lanza A, Apicella D. Light shielding effect of overlaying resin composite on the photopolymerization cure kinetics of a resin composite and a dentin adhesive. *Dent Mater.* 2005; 21:954-61.
6. Monda M, Viggiano AN, Viggiano A, Viggiano E, Lanza A, De Luca V. Hyperthermic reactions induced by orexin A: role of the ventromedial hypothalamus. *Eur J Neurosci.* 2005; 22:1169-75.
7. Mignogna MD, Fedele S, Lo Russo L, Lanza A, Marenzi G, Sammartino G. Gorham's disease of the mandible mimicking periodontal disease on radiograph. *J Clin Periodontol.* 2005; 32:1022-6.
8. Cirillo N, Femiano F, Gombos F, Lanza A. Serum from pemphigus vulgaris reduces desmoglein 3 half-life and perturbs its de novo assembly to desmosomal sites in cultured keratinocytes. *FEBS Lett.* 2006; 580:3276-81.
9. Napoli C, Williams-Ignarro S, de Nigris F, Lerman LO, D'Armiento FP, Crimi E, Byrns RE, Casamassimi A, Lanza A, Gombos F, Sica V, Ignarro LJ. Physical training and metabolic supplementation reduce spontaneous atherosclerotic plaque rupture and prolong survival in hypercholesterolemic mice. *Proc Natl Acad Sci U S A.* 2006; 103(27):10479-84.
10. Mignogna M, Lanza A, Rossiello L, Ruocco V, Ahmed AR. Comparison of reactivity and epitope recognition between sera from American and Italian patients with oral pemphigoid. *Clin Exp Immunol.* 2006; 145(1):28-35.
11. Lanza A, Cirillo N, Femiano F, Gombos F. How does acantholysis occur in pemphigus vulgaris: a critical review. *J Cutan Pathol.* 2006; 33:401-12.
12. Lanza A, Femiano F, De Rosa A, Cammarota M, Lanza M, Cirillo N. The N-terminal fraction of desmoglein 3 encompassing its immunodominant domain is present in human serum:

- implications for pemphigus vulgaris autoimmunity. *Int J Immunopathol Pharmacol*. 2006; 19:399-407.
13. Cirillo N, Gombos F, Lanza A. Changes in desmoglein 1 expression and subcellular localization in cultured keratinocytes subjected to anti-desmoglein 1 pemphigus autoimmunity. *J Cell Physiol*. 2007; 210:411-6.
14. Cirillo N, Femiano F, Gombos F, Lanza A. Metalloproteinase 9 is the outer executioner of desmoglein 3 in apoptotic keratinocytes. *Oral Dis*. 2007; 13:341-5.
15. Lanza A, Cirillo N. Caspase-dependent cleavage of desmoglein 1 depends on the apoptotic stimulus. *Br J Dermatol*. 2007; 156:400-2.
16. Baker AH, Sica V, Work LM, Williams-Ignarro S, de Nigris F, Lerman LO, Casamassimi A, Lanza A, Schiano C, Rienzo M, Ignarro LJ, Napoli C. Brain protection using autologous bone marrow cell, metalloproteinase inhibitors, and metabolic treatment in cerebral ischemia. *Proc Natl Acad Sci U S A*. 2007; 104(9):3597-602.
17. Cirillo N, Lanza M, Rossiello L, Gombos F, Lanza A. Defining the involvement of proteinases in pemphigus vulgaris: evidence of matrix metalloproteinase-9 overexpression in experimental models of disease. *J Cell Physiol*. 2007; 212:36-41.
18. Cirillo N, Gombos F, Ruocco V, Lanza A. Searching for experimental models of Pemphigus vulgaris. *Arch Dermatol Res*. 2007; 299:9-12.
19. Cirillo N, Gombos F, Lanza A. Pemphigus vulgaris immunoglobulin G can recognize a 130 000 MW antigen other than desmoglein 3 on peripheral blood mononuclear cell surface. *Immunology*. 2007; 121:377-82.
20. Cirillo N, Femiano F, Dell'ermo A, Arnese P, Gombos F, Lanza A. A novel method to investigate pemphigus-induced keratinocyte dysmorphisms through living cell immunofluorescence microscopy. *Virchows Arch*. 2007; 450:683-90.
21. Lanza A, De Rosa A, Femiano F, Annese P, Ruocco E, Gombos F, Cirillo N. Internalization of non-clustered desmoglein 1 without depletion of desmoglein 1 from adhesion complexes in an experimental model of the autoimmune disease pemphigus foliaceus. *Int J Immunopathol Pharmacol*. 2007; 20:355-61.
22. Cirillo N, Lanza M, Femiano F, Gaeta GM, De Rosa A, Gombos F, Lanza A. If pemphigus vulgaris IgG are the cause of acantholysis, new IgG-independent mechanisms are the concause. *J Cell Physiol*. 2007; 212:563-7.
23. Femiano F, Lanza A, Buonaiuto C, Gombos F, Nunziata M, Piccolo S, Cirillo N. Guidelines for diagnosis and management of aphthous stomatitis. *Pediatr Infect Dis J*. 2007; 26:728-32.
24. Baroni A, Lanza A, Cirillo N, Brunetti G, Ruocco E, Ruocco V. Vesicular and bullous disorders: pemphigus. *Clin Dermatol*. 2007; 25:597-603.
25. Cirillo N, Dell'Ermo A, Gombos F, Lanza A. The specific proteolysis hypothesis of pemphigus: does the song remain the same? *Med Hypotheses*. 2008; 70:333-337.
26. Cirillo N, Santoro R, Lanza M, Annese P, Gombos F, Lanza A. Mucocutaneous pemphigus vulgaris carrying high-titre anti-desmoglein 1 antibodies with skin lesions resembling pemphigus erythematousus. *Clin Exp Dermatol*. 2008; 33:32-35.
27. Femiano F, Lanza A, Buonaiuto C, Gombos F, Nunziata M, Cuccurullo L, Cirillo N. Burning mouth syndrome and burning mouth in hypothyroidism: proposal for a diagnostic and therapeutic protocol. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. 2008; 105:e22-e27.
28. Cirillo N, Lanza M, De Rosa A, Cammarota M, La Gatta A, Gombos F, Lanza A. The most widespread desmosomal cadherin, desmoglein 2, is a novel target of caspase 3-mediated apoptotic

machinery. *J Cell Biochem.* 2008; 103:598-606.

29. Cirillo N, Lanza M, De Rosa A, Femiano F, Gombos F, Lanza A. At least three phosphorylation events induced by pemphigus vulgaris sera are pathogenically involved in keratinocyte acantholysis. *Int J Immunopathol Pharmacol.* 2008; 21:189-195.
30. Lanza A, Cirillo N, Rossiello R, Rienzo M, Cutillo L, Casamassimi A, de Nigris F, Schiano C, Rossiello L, Femiano F, Gombos F, Napoli C. Evidence of key role of cdk2 overexpression in pemphigus vulgaris. *J Biol Chem.* 2008; 283:8736-8745.
31. Femiano F, Lanza A, Buonaiuto C, Gombos F, Rullo R, Festa VM, Cirillo N. Oral manifestations of adverse drug reactions: Guidelines. *J Eur Acad Dermatol Venereol.* 2008; 22:681-91.
32. Femiano F, Lanza A, Buonaiuto C, Gombos F, Cirillo N. Oral aphthous-like lesions: PFAPA syndrome, a review. *J Oral Pathol Med.* 2008; 37:319-23.
33. de Nigris F, Rossiello R, Schiano C, Arra C, Williams-Ignarro S, Barbieri A, Lanza A, Balestrieri A, Giuliano MT, Ignarro LJ, Napoli C. Deletion of Yin Yang 1 protein in osteosarcoma cells on cell invasion and CXCR4/angiogenesis and metastasis. *Cancer Res.* 2008; 68:1797-808.
34. Femiano F, Lanza A, Buonaiuto C, Gombos F, Di Spirito F, Cirillo N. A review of the literature of oral malignant melanoma. *J Oral Pathol Med.* 2008; doi: 10.1111/j.1600-0714.2008.00660.x
35. Cirillo N, Campisi G, Gombos F, Perillo L, Femiano F, Lanza A. Cleavage of desmoglein 3 can explain its depletion from keratinocytes in pemphigus vulgaris. *Exp Dermatol.* 2008; doi:10.1111/j.1600-0625.2008.00719.x
36. Lanza A, Stellavato A, Heulfe I, Landi C, Gombos F, Cirillo N. Serum of patients with oral pemphigus vulgaris impairs keratinocyte wound repair in vitro: a time-lapse study on the efficacy of methylprednisolone and pyridostigmine bromide. *Oral Dis.* 2009 Oct;15(7):478-83. Epub 2009 Jun 10.
37. Cirillo N, Femiano F, Gombos F, Lanza A. High-dose pemphigus antibodies against linear epitopes of desmoglein 3 (Dsg3) can induce acantholysis and depletion of Dsg3 from keratinocytes. *Immunol Lett.* 2009 Feb 21;122(2):208-13. Epub 2009 Feb 4.
38. Cirillo N, Lanza A, Prime SS. Induction of hyper-adhesion attenuates autoimmune-induced keratinocyte cell-cell detachment and processing of adhesion molecules via mechanisms that involve PKC. *Exp Cell Res.* 2010 Feb 15;316(4):580-592.
39. Femiano F, Rullo R, Serpico R, Lanza A, Festa VM, Laino G. An unusual case of oral hirsutism in a patient with polycystic ovarian syndrome. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2009 Dec;108(6):e13-6.
40. Femiano F, Buonaiuto C, Gombos F, Lanza A, Cirillo N. Pilot study on recurrent aphthous stomatitis (RAS): a randomized placebo-controlled trial for the comparative therapeutic effects of systemic prednisone and systemic montelukast in subjects unresponsive to topical therapy. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 2010 Mar;109(3):402-7. Epub 2009 Nov 18.
41. Lanza A, Lanza M, Santoro R, Soro V, Prime SS, Cirillo N. Deregulation of PERK in the autoimmune disease pemphigus vulgaris occurs via IgG-independent mechanisms. *Br J Dermatol.* 2011 Feb;164(2):336-343. doi: 10.1111/j.1365-2133.2010.10084.x.
42. Lanza A, Perillo L, Landi C, Femiano F, Gombos F, Cirillo N. Controversial role of antibodies against linear epitopes of desmoglein 3 in pemphigus vulgaris, as revealed by semiquantitative living cell immunofluorescence microscopy and in-cell ELISA. *Int J Immunopathol Pharmacol.* 2010 Oct-Dec;23(4):1047-55.

43. Femiano F, Rullo R, Spirito FD, Lanza A, Festa VM, Cirillo N. A comparison of salivary substitutes versus a natural sialogogue (citric acid) in patients complaining of dry mouth as an adverse drug reaction: a clinical, randomized controlled study.  
Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Apr 19.
44. Guida L, Cuccurullo GP, Lanza A, Tedesco M, Guida A, Annunziata M.  
Orthodontic-aided extraction of impacted third molar to improve the periodontal status of the neighboring tooth.  
J Craniofac Surg. 2011 Sep;22(5):1922-4.  
PMID: 21959468 [PubMed - indexed for MEDLINE]
45. Annunziata M, Oliva A, Basile MA, Giordano M, Mazzola N, Rizzo A, Lanza A, Guida L.  
The effects of titanium nitride-coating on the topographic and biological features of TPS implant surfaces.  
J Dent. 2011 Aug 12
46. Colella G, Vicidomini A, Soro V, Lanza A, Cirillo N.  
Molecular insights into the effects of sodium hyaluronate preparations in keratinocytes.  
Clin Exp Dermatol. 2012 Jul;37(5):516-20. doi: 10.1111/j.1365-2230.2011.04279.x. Epub 2012 May 28.  
PMID: 22632105 [PubMed - indexed for MEDLINE]
47. Femiano F, Femiano R, Lanza A, Festa MV, Rullo R, Perillo L. Efficacy of diode laser in association to sodium fluoride vs Gluma desensitizer on treatment of cervical dentin hypersensitivity. A double blind controlled trial.  
Am J Dent. 2013 Aug;26(4):214-8
48. Lanza M, Cennamo M, Iaccarino S, Romano V, Bifani M, Irregolare C, Lanza A. Evaluation of corneal deformation analyzed with a Scheimpflug based device.  
Cont Lens Anterior Eye. 2014 Nov 21. pii: S1367-0484(14)00134-9. doi: 10.1016/j.clae.2014.10.002. [Epub ahead of print]  
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49. Lanza M, Iaccarino S, Cennamo M, Lanza A, Coen G.  
New Scheimpflug camera device in measuring corneal power changes after myopic laser refractive surgery.  
Cont Lens Anterior Eye. 2014 Dec 29. pii: S1367-0484(14)00345-2. doi: 10.1016/j.clae.2014.12.003. [Epub ahead of print]
50. Infante T, Mancini FP, Lanza A, Soricelli A, de Nigris F, Napoli C.  
Polycomb YY1 is a critical interface between epigenetic code and miRNA machinery after exposure to hypoxia in malignancy.  
Biochim Biophys Acta. 2015 Jan 30;1853(5):975-986. doi: 10.1016/j.bbamcr.2015.01.009. [Epub ahead of print]

51. Femiano F, Femiano L, Femiano R, Lanza A, Lanza M, Rullo R, Perillo L.  
Class I restoration margin quality in direct resin composites: A double-blind randomized controlled clinical trial.  
Am J Dent. 2015 Jun;28(3):157-60.
52. Lanza M, Paolillo E, Gironi Carnevale UA, Lanza A, Irregolare C, Mele L, Bifani M.  
Central corneal thickness evaluation in healthy eyes with three different optical devices.  
Cont Lens Anterior Eye. 2015 Jun 2. pii: S1367-0484(15)00082-X. doi: 10.1016/j.clae.2015.05.006
53. Lanza A, Scognamiglio F, Femiano F, Lanza M.  
Immediate, early, and conventional implant placement in a patient with history of periodontitis.  
Case Rep Dent. 2015;2015:217895. doi: 10.1155/2015/217895. Epub 2015 Apr 8.
54. Lanza A, Scognamiglio F, Femiano F, Lanza M.  
Implant Placement in Fresh Extraction Socket with Simultaneous Bone Regeneration. British Journal of Medicine and Medical Research, ISSN: 2231-0614, Vol.: 10, Issue.: 9, 2015
55. Lanza M, Iaccarino S, Mele L, Carnevale UA, Irregolare C, Lanza A, Femiano F, Bifani M.  
Intraocular pressure evaluation in healthy eyes and diseased ones using contact and non contact devices.  
Cont Lens Anterior Eye. 2015 Oct 16. pii: S1367-0484(15)30030-8. doi: 10.1016/j.clae.2015.10.001. [Epub ahead of print]
56. Femiano F, Femiano R, Lanza A, Lanza M, Perillo L. Effectiveness on oral pain of 808-nm diode laser used prior to composite restoration for symptomatic non-carious cervical lesions unresponsive to desensitizing agents. Lasers Med Sci. 2016 Oct 12. [Epub ahead of print]
57. Lanza A, Scognamiglio F, De Marco G, Lanza M, Femiano F, Minervini G. Flapless guided implant uncovering (FGIU): Minimally invasive healing abutment connection surgery. DOCR 2016 2(6) 1-5. DOI: 10.15761/DOCR.1000188
58. Analysis and management of implant-prosthetic complications: Description of a diagnostic and therapeutic algorithm with a clinical case. De Marco G, Di Francesco F, Lanza A. J Prosthodont Res. 2017 Aug 24. pii: S1883-1958(17)30079-8. doi: 10.1016/j.jpor.2017.08.001.
59. Multidisciplinary Approach in the Management of a Complex Case: Implant-Prosthetic Rehabilitation of a Periodontal Smoking Patient with Partial Edentulism, Malocclusion, and Aesthetic Diseases. Lanza A, Di Francesco F, De Marco G, Scognamiglio F, Aruta V, Itró A. Case Rep Dent. 2017;2017:6348570. doi: 10.1155/2017/6348570. Epub 2017 Mar 21.
60. Clinical Application of the PES/WES Index on Natural Teeth: Case Report and Literature Review. Lanza A, Di Francesco F, De Marco G, Femiano F, Itró A. Case Rep Dent. 2017;2017:9659062. doi: 10.1155/2017/9659062. Epub 2017 Feb 5.

## ***Research And Scientific Training Activities***

- Research activity performed as an internal student, at the laboratory of Prof. G. Papaccio (Professor of Embryology and Human Histology, Campania University: Luigi Vanvitelli) carried out in 1999-2000 and part of 2001: study of  $\beta$  cells of the Langerhans islands of rat pancreas and the effect of various chemical factors on them. (Work published in the international Journal of Cellular Biochemistry)

- Experimental research carried out at the laboratory of Prof. A. Apicella (Professor of Materials Science and Technology), carried out from 2000 to 2004:

1. Simulation of the biomechanical behavior of the spine and its 3D-FEM modeling. Year 2000-2001
2. Use of FEM simulation tools for the evaluation of intervertebral disc damage in frontal collision of a car against a fixed barrier. Years 2001-2002 (Research commissioned by FIAT-ELASIS)
3. FEM simulation of the biomechanical behavior of a human jaw. Year 2002.
4. Study of the biomechanical behavior of steel, glass and carbon endocanal pins. Years 2002-2003 (Work published in the international journal Dental Material)
5. Study on the polymerization processes of dental composites. Years 2002-2003 (two works published in the international journal Dental Material)
6. Design of a new and innovative implant system and study of its mechanical characteristics through 3D-FEA. Years 2003-2004 (Degree Thesis)

- Experimental research activity performed at the Department of Odontostomatological, Orthodontic and Surgical Sciences, Campania University: Luigi Vanvitelli, "De Re Dentaria" laboratories from January 2003 to 2005:

1. Study and development of biomaterials and composites for dental use.
2. In vitro study related to the cytotoxicity of metronidazole on human parodontal ligament cells.
3. Study on the influence of Clamydya on the pathogenesis of periodontal disease.
4. Study on the combined use of Amelogenine and autologous bone in periodontal tissue regeneration.
5. Study of the potential bacteriostatic and bactericidal effect of Emdogain on bacterial species constituting the subgingival parodontal plaque.
6. Experimentation on healing of implants in immediate post-extraction sites.
7. Evaluate the benefits of Dentosan Prevent mouthwash, in improving the oral health status of dental patients in the outpatient setting

- Experimental research carried out at the Department of Experimental Medicine, Section of Human Physiology, Campania University: Luigi Vanvitelli, neurophysiology laboratory, from September of the year 2003 to 2005:

1. Study on the effect that dental malocclusion, induced on laboratory rats, has on the genesis of stress and on the variation of haematochemical parameters. (Poster presented at the 2004 Scientific Days of the Faculty: Experimental model of malocclusion without malnutrition)



2. Electrophysiological study of the central and peripheral nervous system (work: "Hyperthermic reaction induced by orexin A: role of the ventromedial hypothalamus". Authors: M.Monda, An.Viggiano, Al.Viggiano, D.Viggiano, A.Lanza, V .DeLuca has been published in the international journal Neuroscience.)

- Experimental research carried out at the Department of Experimental Medicine, Section of Biotechnology and Molecular Biology, Campania University: Luigi Vanvitelli, laboratory "Ancient DNA", from 2004 to 2006, related to:

1. Molecular analysis of findings deriving from the skull and in particular from the maxillary bones as well as the hard tissues of the teeth by PCR (research project financed by MIUR)

- Experimental research performed at the Department of Psychiatry, Child Neuropsychiatry, Audiophoniatics and Dermatovenereology, Section of Dermatology, Campania University: Luigi Vanvitelli, in the year 2004:

1. Clinical and microscopic study (cytological-histological-IFD-IFI etc.) of muco-cutaneous pathologies of interest both dermatological and odontoiatric and in particular of the vesiculo-bullous disimmune pathologies.

2. In vivo experimentation of the innovative anti-pemphigus therapy based on intravenous immunoglobulin patented by Prof. Razzaque Ahmed of the University of Harvard (Boston), at whose laboratory based at Harvard University in Boston, the undersigned was invited from 5 to November 10th of the current year to acquire new techniques necessary for further and more specific investigations on the pathogenetic mechanism of pemphigus and pemphigoid.

3. In vitro experimentation of the potential prophylactic and / or therapeutic effect of cholinomimetic drugs on primary human keratinocytes tested with pemphigosis patients serum (antiacantolytic effect)

- Experimental research performed at the Department of Odontostomatological, Orthodontic and Surgical Disciplines, Campania University: Luigi Vanvitelli, from 2004 to today, within the following research projects:

- 1) TOWARDS A BETTER UNDERSTANDING OF THE PEMOGIGIANIS OF PEMFIGO  
VOLGARELinee of research: 1. Systematic study of the biochemistry and physiopathology of Dsg3.2. Study of desmogleinic autoimmunity and not desmogleinica in PV3. Application of new in vivo drug therapies in the murine model

- 2) ALTERATIONS OF THE CELLULAR CYCLE IN CHERATINOCYTS IN CARRYING OF  
AUTOIMMUNE DISEASES OF THE ORAL CABLE

- 3) THE SERUM OF PEMFIGO VOLGARE INDUCES THE MOBILIZATION OF CHERATINOCYTIC  
RECEPTORS AND CHANGES THE STATE OF PHOSPHORILATION OF THE PROTEINS:  
DISSECTION OF PATHOGENIC EVENTS AND NEW THERAPEUTIC APPROACHES (Request for  
PRIN 2007 cofinancing: Study of the etiopathogenetic mechanisms in the pemphigus - Coordinator: Prof. Carlo Pincelli, University of Modena and Reggio Emilia)

- 4) STUDY OF THE AUTOANTICORPAL RESPONSE IN PATIENTS WITH SJOGREN SYNDROME:  
PHYSIOPATHOLOGICAL MEANING AND CORRELATION CLINICO-LABORATORISTICHE  
(University Project 2007 - "Research Projects of Relevant Scientific and Technological Interest" -  
Coordinator: Prof. Nicola Rosa)

## ***Research Contracts***

- Collaboration contract with the CRISCEB (Center for Interdepartmental Research Computational and Biotechnological Sciences) of the Second University of Naples for research: Molecular analysis of findings deriving from the skull and in particular from the maxillary bones as well as the hard tissues of the teeth , with application of methodologies such as PCR, from October 4, 2004 to December 31, 2004.
- Coordinated and continuous collaboration agreement with the CRISCEB (Center for Interdepartmental Research Computational and Biotechnological Sciences) of the Second University of Naples, duration 1.03 .2005- 31.01.2006, having as object of the assignment: optimization, development and application of methodologies and protocols useful for the identification of periodontontal bacteria in ancient relics by amplifying DNA of bacteria responsible for periodontitis using the polymerase chain reaction and real time PCR.

## ***Scientific Research Programs of Relevant National Interest (PRIN)***

PRIN 2007: Scientific Coordinator PINCELLI Carlo

Scientific Manager GOMBOS Fernando

Protocol 20077FPJ22\_004 Area 06 Duration 24 months

Title THE SERUM OF PEMFIGO VOLGARE INDUCES THE MOBILIZATION OF  
CHERATINOCYTARY RECEPTORS AND CHANGES THE STATE OF PHOSPHORILATION OF THE  
PROTEINS: DISSECTION OF PATHOGENIC EVENTS AND NEW THERAPEUTIC APPROACHES  
Expected engagement: The year 11 months man 2nd year 11 months man Date: Effective 22/09/2008 Expiry  
date Documents: Finalized 20/10/2010

## ***International Scientific Community Afferece***

First in 2010 and then since 2016 Ordinary Member of the PEERS International Community (Platform, Exchange, Education , Research & Science), prestigious international scientific community, belonging to the Dentsply International group, aimed at the development, dissemination and sharing of scientific, clinical and technological knowledge in the field of dental implantology worldwide.