



Curriculum Vitae

Personal information **Cristina Pezzella**

Work experience

1. Employer: Istituto Superiore di Sanità (National Centre for the Control and Evaluation of Medicines _ CNCF)
 - Start date: 112013
 - End date:
 - Position: Researcher
 - Activities: Quality Control activities in the field of Biologicals:
 - _ Batch release (BR) of bacterial vaccines within the OMCL network.
 - _ Validation of analytical methods for the control of bacterial vaccines.
 - _ Post_marketing surveillance (PMS) of bacterial vaccines.
 - _ Participation in EDQM Biological Proficiency Testing Studies.
 - Assessment of the quality part of the registration dossier for bacterial vaccines.
 - Quality assessor for centralized procedures regarding biological drugs, such as blood derived products
 - Participation in EDQM Biological Standardization Programme (BSP) for the development of alternative test methods for the control of whole cell pertussis vaccines.
 - Italian Expert in the Italy_Turkey Twinning Project TR 09 IB FI 01 R "Quality Control Tests for Human Vaccines and Sera" (Sept. 2012_Sept. 2014)
 - Participation in transfer analytical methods for the implementation of OCABR activities concerning monovalent and tetravalent meningococcal conjugate vaccines at CNCF _ Bacterial Vaccine Section.
 - Contact Person for Technical Service Agreement (TSA) WHO_ISS for the control of WHO prequalified vaccines.
 - Country: Italy
2. Employer: Istituto Superiore di Sanità (National Centre for Research and Evaluation of Immunological Products _ CRIVIB)
 - Start date: 032004
 - End date: 102013
 - Position: Biological Science Technician, Expert on Immunobiological Products
 - Activities: Quality Control activities in the field of Biologicals:
 - _ Batch release (BR) of bacterial vaccines within the OMCL network.
 - _ Validation of analytical methods for the control of vaccines.
 - _ Post_marketing surveillance (PMS) of bacterial vaccines.
 - Assessment of the quality part of the registration dossier for bacterial vaccines.
 - Quality assessor for centralized procedures regarding biological drugs, such as blood derived products
 - Participation in EDQM Biological Standardization Programme (BSP) for the development of alternative test methods for the control of whole cell pertussis vaccines.
 - Italian Expert in the Italy_Turkey Twinning Project TR 09 IB FI 01 R "Quality Control Tests for Human Vaccines and Sera" (Sept. 2012_Sept. 2014)
 - Country: Italy
3. Employer: Istituto Superiore di Sanità (Department of Infectious, Parasitic and Immunomediated Diseases _ MIPI)
 - Start date: 111988
 - End date: 032004
 - Position: Microbiology Laboratory Technician
 - Activities:
 - Isolation, identification and characterization of Gram Negative Bacteria involved in human enteric diseases.
 - Research on antibiotic resistance in enteric pathogens and molecular characterization of their genetic elements conferring multiple_antibiotic resistance.
 - Microbiological diagnosis of *Helicobacter pylori* and Campylobacter infections.
 - Research on virulence factors in *Helicobacter pylori* and *Vibrio cholerae* strains.
 - Isolation, identification and characterization of thermophilic from human, animals and food samples. Serological studies on human Campylobacter infections_related diseases.
 - Country: Italy
4. Employer: Istituto Superiore di Sanità (Bacteriology and Medical Mycology Laboratory, BMML)
 - Start date: 021987
 - End date: 091988
 - Position: Infection Diseases Fellowship (as Lab Technician)
 - Activities:
 - Assays on the immunochemistry of streptococcal capsular structures, mechanism of streptococcal adherence to human epithelial cells and cell cultures (HeLa).
 - Country: Italy

Education and training

1. Subject: University of Rome
 - Start date: 091987
 - End date: 122002
 - Qualification: Degree with Honors in Biological Sciences

- Organisation:
- Country: Italy

Additional information

Publications

1. P. Paoluzi, I. Luzzi, P. Rossi, A. Tavanti and C. Pezzella. "A study on serological neutralizing activity against *Helicobacter pylori* vacuolizing cytotoxin in a group of cirrhotic patients". The Italian Journal Of Gastroenterology. Suppl. 2 vol 23, n°9, pag 26. December 1991.
2. C. Gandin, I. Luzzi, V. Rinaldi, C. Camastra, C. Pezzella, M. Angelico, L. Capocaccia. "Helicobacter pylori infection in cirrhosis: is it important?". The Italian Journal Of Gastroenterology. Suppl. 2 vol 23, n°9, pag 74. December 1991.
3. C. Gandin, I. Luzzi, V. Rinaldi, C. Pezzella, A. Nistri, M. Angelico And L. Capocaccia. "Helicobacter pylori infection and congestive gastropathy in cirrhosis: any connection?". Proceedings of XIV International Congress Of Gastroenterology And VII European Congress Of Digestive Endoscopy. Athens, September 25_30, 1992. Pag 92.
4. Luzzi I. Bugnoli M. Pezzella C., Figura N. Benedetti I. Armellini D. Rossolini A. "Affinity and ion exchange chromatography in the purification and characterization of *Helicobacter pylori*". In: Basic and clinical aspects of H. pylori. Pag 79_81. Gasbarrini and Pretolani (Eds). Springer_Verlag Berlin Heidelberg. 1993.
5. Luzzi I., Pezzella C. Caprioli A., Covacci A., Bugnoli M., Censini S. "Detection of vacuolating toxin of *Helicobacter pylori* in human faeces". Lancet. 1993 May 22; 341(8856): 1348.
6. Luzzi, A. Caprioli, C. Pezzella, A. Covacci, M. Bugnoli, S. Censini, R. Rappuoli, and A.M.C.I. Study Group. "Helicobacter pylori: a causative agent of infantile diarrhoea?". Acta Gastro_Enterologica Belgica. Vol. 56 Supplement 1993 pag 60.
7. M. Angelico, I. Luzzi, C. Gandin, C. Pezzella, L. Baiocchi, A. Nistri And L. Capocaccia. "Individual bile salts differently modulate *Helicobacter pylori* growth: implication for human pathophysiology". Acta Gastro_Enterologica Belgica. Vol. 56 Supplement 1993 pag 107.
8. M. Bonamico, I. Luzzi, B. Annibale, S. Monti, F. Deganello, C. Pezzella, V. Petrozza e F. Carpino. "Elevata incidenza di infezione da *Helicobacter pylori* in una casistica endoscopica pediatrica". Minerva Pediatrica. Ottobre 1994; 46(10): 429_36.
9. Caviglia R., Angeletti S., Luzzi I., Marignani M., Pezzella C. et al. "Relationship between omeprazole pre_treatment and successful eradication rate on *Helicobacter pylori* infection". Supplement to Gastroenterology, April 1995, vol. 108, n° 4, pag A68.
10. Luzzi I., Covacci A., Censini S., Pezzella C., Crotti D., Facchini M., Giammanco A., Guglielmetti P., Piersimoni C., Bonamico M., Mariani P., Rappuoli R., Caprioli A. "Detection of a vacuolating cytotoxin in stool from children with diarrhea". Clin. Infect. Dis. 1996 Jul; 23(1): 101_6.
11. Caprioli A., Pezzella C., Morelli R., Giammanco A., Arista S., Crotti D., Facchini M., Guglielmetti P., Piersimoni C., Luzzi I. "Enteropathogens associated with childhood diarrhea in Italy". Pediatr. Infect. Dis. J. 1996 Oct; 15(10): 876_83.
12. C. Pezzella, A.M. Dionisi, G. Luzi, V. Rinaldi, I. Benedetti, F. Aiuti e I. Luzzi. "Infezioni intestinali da *Campylobacter* termofili in pazienti con immunodeficienza comune variabile". Microbiologia Medica. Vol. 11 n°3, 1996.
13. Bonamico M., Mariani P., Magliocca F. M., Petrozza V., Montuori M., Pezzella C., Luzzi I., Carpino F. "Helicobacter pylori duodenal colonization in children". Acta Paediatr. 1997 Apr; 86(4): 356_60.
14. Luzzi I., Crotti D., Medori M.C., Clerici P.A., Pezzella C., Carattoli A., and the HEPYG Study Group. "Helicobacter pylori and gastroduodenal disease. Results of an italian multicenter study". Gastroenterology Internat. 1997 Vol.10 Suppl.4: 49_51.
15. Tosini F., Visca P., Luzzi I., Villa L., Pezzella C. Dionisi A.M., Petrucca A., Carattoli A. "Integroni localizzati su plasmidi Inc FI e Inc L/M conferiscono resistenza ad antibiotici in *Salmonella* Enterica sierotipo typhimurium". Joined Congress SIBBM, AGI, ABCD, SIMGBM. Montesilvano Lido (PE), 1_4 October 1998. Congress Proceedings pag 148.
16. Tosini F., Visca P., Luzzi I., Dionisi A. M., Pezzella C., Petrucca A., Carattoli A. "Class 1 integron_born multiple_antibiotic resistance carried by IncFI and IncL/M plasmids in *Salmonella* Enterica serotype typhimurium". Antimicrob. Agents Chemoter. 1998 Dec; 42(12): 3053_8.
17. Falbo V., Carattoli A., Tosini F., Pezzella C., Dionisi A. M., Luzzi I. "Antibiotic resistance conferred by a conjugative plasmid and a class I integron in *Vibrio Cholerae* O1 El Tor strains isolated in Albania and Italy". Antimicrob. Agents Chemoter. 1999 Mar; 43(3):693_6.
18. Pezzella C., Carattoli A., Pietroiusti A., Pezzotti P., Luzzi I. "Fattori di virulenza Cag A e Vac A in ceppi di *Helicobacter pylori* isolati dall'uomo e loro associazione con differenti manifestazioni cliniche dell'ulcera peptica". Microbiologia Medica, n°2, volume 14, 1999; pag 141.
19. Dionisi A.M., Filetici E., Pezzella C. Villa L., Mariotti S., Carattoli A. "Antibiotico_resistenza e tipizzazione: un metodo molecolare per riconoscere la S. typhimurium DT104 R_type ACSSuT". Microbiologia Medica, n°2, volume 14, 1999; pag 183.
20. L. Villa, C. Pezzella, F. Tosini, P. Visca, A. Carattoli. "Integroni in isolati di *Salmonella* enterica typhimurium". I Convegno Della Federazione Italiana Scienze Della Vita. Riva Del Garda (TN), 2_6 Ottobre 1999. Congress Proceedings pag 135.
21. L. Villa, P. Visca, C. Pezzella, F. Tosini, L. Luzzi, E. Filetici, S. Mariotti, A. Carattoli. "Organizzazione strutturale ed evoluzione di elementi genetici che conferiscono resistenza multipla agli antibiotici in *Salmonella* enterica typhimurium". II Convegno della Federazione Italiana Scienze della Vita. Riva Del Garda (TN), 30 Settembre_4 Ottobre 2000. Congress Proceedings pag 137.
22. Villa L., Pezzella C., Tosini F., Visca P., Petrucca A., Carattoli A. "Multiple_antibiotic resistance mediated by structurally related IncL/M plasmids carrying an extended_spectrum beta_lactamase gene and a class 1 integron". Antimicrob.Agents Chemoter. 2000 Oct; 44(10): 2911_2914.
23. Carattoli A., Pezzella C., Pietroiusti A., Galante A., Pezzotti P., Luzzi I. "Cytotoxin associated gene A and vacuolating cytotoxin A in human isolates of *Helicobacter pylori* and their association with the clinical status of ulcer disease". Eur. J. Gastroenter. Hepatol. 2000 Nov; 12(11):1207_13.
24. Carattoli A., Villa L., Pezzella C., Bordi E., Visca P. "Expanding drug_resistance through integron acquisition by IncFI plasmids of *Salmonella* enterica Typhimurium". Emerging Infectious Diseases. 2001 May_Jun; 7(3):444_7. IF: 5.968
25. C. Pezzella, A. M. Dionisi, I. Luzzi, D. Crotti, M. J. Gomez Miguel. "Campylobacter infection in Italy: a laboratory based surveillance". Clin. Microbiol. Infect. 2001; 7 (Suppl. 1): 308 (P1434).
26. Luzzi, A. Dionisi, C. Pezzella, A. Carattoli, M. Gomez Miguel, et al. Pag 34. "Campylobacter infection in Italy: human and veterinary surveillance". International J. Med. Microbiol. 2001; 291 (Suppl. 31): 34.
27. Villa L., Visca P., Tosini F., Pezzella C., Carattoli A. "Composite integron array generated by insertion of an ORF341_type integron within a Tn21_like element". Microb. Drug Resist. 2002 Spring 8(1):1_8.
28. Graziani C., Busani L., Pezzella C., Arena S., Luzzi I., responsabili dei laboratori referenti ENTER_NET. "Resistenza agli antibiotici in ceppi di S. enteritidis, S. typhimurium e S. infantis isolati da casi umani, da alimenti, da animali e dall'ambiente". Microbiologia Medica, volume 17, numero 2, anno 2002; 184_185.
29. Pezzella C., Ricci A., Di Giannatale E., Luzzi I., Carattoli A. "Tetracycline and streptomycin resistance genes, transposons and plasmids in *Salmonella* enterica isolates from animals in Italy". Antimicrobial Agents and Chemotherapy. 2004 Mar; 48(3): 903_908.
30. C. Pezzella, L. Villa, A. Bertini, A. Ricci, E. Di Giannatale, I. Luzzi, A. Carattoli. "Identificazione e caratterizzazione dei determinanti genetici di antibiotico_resistenza in ceppi di *Salmonella* enterica di origine animale". Microbiologia Medica. Volume 19, numero 4, 2004; 335_339.
31. Daly M., Villa L., Pezzella C., Fanning S. and Carattoli A. "Comparison of multidrug resistance gene regions between two geographically unrelated *Salmonella* serotypes". Journal of Antimicrobial Chemotherapy. (2005) 55, 558_561.
32. Von Hunolstein C, Giambi C, Barale A, Pinto A, Pezzella C, Marchisio M. "Levels of specific antibodies to Tetanus and Diphtheria toxoids and Haemophilus influenzae type b in children after 15 months from primary immunization with two different hexavalent vaccines". Vaccine congress. Abstract book; December 9_11, 2007; Amsterdam. 2007. Pag. 112.
33. M.J.Gomez Miguel, C. Pezzella, F. Scopetti, L. Levels, J. van der Gun, C. Hendriksen, M. Halder, M. E.

- Behr_Gross and C. von Hunolstein. "Measurement of antibody response to Pertussis toxin in Guinea pigs immunized with whole_cell Pertussis Vaccines as a serological alternative to the mouse protection test". In: "International Symposium Alternatives to Animal Testing: New Approaches in the Development and Control of Biologicals. Proceedings", pag 173_174. Dubrovnik, Croatia. 23_24 April 2008. EDQM/Council of Europe.
34. J. van der Gun, L. Levels, M.J.Gomez Miguel, C. Pezzella, C. von Hunolstein, M. Halder, M. E. Behr_Gross and C. Hendriksen. "The Pertussis serological potency test for potency testing of whole_cell pertussis vaccines in a Guinea pig model as a serological alternative to the Kendrick test". In: "International Symposium Alternatives to Animal Testing: New Approaches in the Development and Control of Biologicals. Proceedings", pag 195_196. Dubrovnik, Croatia. 23_24 April 2008. EDQM/Council of Europe.
35. C. von Hunolstein, M.J.Gomez Miguel, C. Pezzella, F. Scopetti, M. E. Behr_Gross, M. Halder, S. Hoffmann, L. Levels, J. van der Gun and C. Hendriksen. "Evaluation of two serological methods for Potency Test of Whole Cell Pertussis Vaccines". Pharmeuropa Bio 2008_1:7_18.
36. R. Winsnes, D. Sesardic, A. Daas, E. Terao, M_E. Behr_Gross [Partecipants for Italy, Istituto Superiore di Sanità: M.J. Gomez Miguel, C. Pezzella, F. Scopetti, C. von Hunolstein]. "Collaborative study on a Guinea Pig Serological Method for the Assay of Acellular Pertussis Vaccines" Pharmeuropa Bio 2009_1: 19_31.
37. M.J.Gomez Miguel, C. Pezzella, F. Scopetti, M. E. Behr_Gross, M. Halder, L. Levels, J. van der Gun and C. Hendriksen and C. von Hunolstein. "Pertussis, diphtheria and tetanus serological potency testing in a single animal model". *Altex* 2009; 26 (Spec. Issue): 209_210 [Abstract].
38. PA/PH/BIO (10) 35 DEF "BSP104: Whole cell pertussis Vaccine testing". EDQM. Strasbourg, September 2010.
39. PA/PH/BIO (13) 20 BSP104 Phase 1 Report. EDQM. Strasbourg, June 2013.

Projects

1. Project 3AIF: "Vaccini antinfettivi per l'uomo nel terzo millennio: integrazione di approcci molecolari, microbiologici ed immunologici" (Project Leader Dr. P. Mastrantonio), Unità Operativa 12 "Valutazione delle strategie vaccinali attraverso lo studio di livelli anticorpali nella popolazione pediatrica ed adulta" (Project Leader Dr. M. Ciofi), 2003_2004, Istituto Superiore di Sanità, Bacterial Vaccines Unit GdL/IBL.
2. European Project "Optimization of the CHO assay for potency testing of whole_cell pertussis vaccines according to Module 1 and 2 of ECVAM's Modular Approach to Validation" (JRC/IHCP/ECVAM, C.E. Service Contract N CCR.IHCP.C431460.X0 (Project Leader Dr. C. von Hunolstein), 06/12/2005 _ 06/10/2007, Istituto Superiore di Sanità, Bacterial Vaccines Unit GdL/IBL.
3. European Project "Optimisation of PSPT assay for potency testing of whole_cell pertussis vaccines according to module 1 and 2 of ECVAMs Modular Approach to Validation granted to the Netherlands Vaccine Institute" (Bilthoven, NL, contract n° CCR.IHCP.C431461.X0, Project leader Dr. C. Hendriksen), 06/12/2005 _ 06/10/2007, Istituto Superiore di Sanità, Bacterial Vaccines Unit GdL/IBL.
4. EDQM Collaborative Study on a Guinea Pig Serological Method for the Assay of Acellular Pertussis Vaccines – BSP083 Phase II [PA/PH/BIO (09) 5], 2008, Istituto Superiore di Sanità, National Centre for Research and Evaluation of Immunobiological Products – CRIVIB.
5. EDQM Collaborative Study for replacement of in vivo assay for whole cell pertussis vaccines (Kendrick test) – BSP104 – Whole_cell Pertussis Vaccine Testing PA/PH/BIO (08) 46, 2008_2011, Istituto Superiore di Sanità, National Centre for Research and Evaluation of Immunobiological Products – CRIVIB.
6. Twinning Project: "Quality Control Tests for Human Vaccines and Sera"(Sept. 2012_Sept. 2014). Twinning number TR 09 IB FI 01 R. Partner Country: Turkey.

Memberships

Other Relevant Information