



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Christina von Hunolstein**
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E-mail christina.vonhunolstein@iss.it
Nationality Italian
Date of birth August, 23, 1955
Gender female

Occupational field Bacterial vaccine control, evaluation and research

Work experience

Dates	April 2004 onwards
position	Research Director and Coordinator of the Bacterial Vaccine Unit
Main activities and responsibilities	<ul style="list-style-type: none">• Responsible of the Batch Release of bacterial vaccines for Istituto Superiore di Sanità.• Designated person for the activity of Batch Release of Bacterial Vaccines of the Istituto Superiore di Sanità in the OMCL network (since 2002)• Member of the OMCL Drafting Group for Vaccines, European Directorate for the Quality of medicines, Strasbourg (since 2002)• Expert, included also in the list of "EMA Expert" for the Assessments of the chemical, pharmaceutical and biological aspects of human vaccines (Quality part), live biotherapeutic products, bacterial lysate, homeopathic products (nosodes) in national, mutual recognition and centralized procedures (since 1997)• Expert of Group 15 of the European Pharmacopoeia (sera and vaccines)• Chair of the Live Biotherapeutic Products Working Party of the European Pharmacopoeia• Scientific advise for EMA• Responsible of Research projects funded by different organizations like ECVAM and EDQM for studying alternative methods to animal test.• Organization and execution of hands on training courses at ISS, in collaboration with WHO, for the determination of Hib PRP capsular polysaccharide content in liquid vaccine presentation by HPAEC-PAD at ISS and abroad.
Name and address of employer	Centre for Research and Evaluation of Immunobiological Products (CRIVIB), Istituto Superiore di Sanità, Viale Regina Elena, 299, 00161 Roma, Italy
Type of business or sector	Italian National Public Health Institute - Italian Official Medicines Control Laboratory
Dates	1.1.1995 – 30.3.2004
position	Senior Researcher
Main activities and responsibilities	Studies on CpG immunostimulatory activity for Hib glycoconjugates; Group A Streptococcal M proteins; Optimization of HPSEC to assess molecular size distribution of polysaccharides and glycoconjugate vaccines; Seroepidemiology of vaccine preventable diseases, in particular diphtheria, tetanus, Hib and evaluation of immunogenicity and reactogenicity of diphtheria and tetanus vaccines related to vaccination schedules; Alternative methods to <i>in vivo</i> testing. Responsible of workpackages in two European projects and project leader of national -Italian -projects.
Name and address of employer	Department of Infectious, Parasitic and Immune-Mediated Diseases, Istituto Superiore di Sanità, Viale Regina Elena, 299, 00161 Roma, Italy
Dates	1.8.1985 - 1.1.1995
position	Researcher

Main activities and responsibilities | Research on the immunochemistry of streptococcal capsular structures, mechanism of streptococcal adherence to human epithelial cells and cell cultures (HeLa), *in vitro* analysis of cytokines induced by streptococcal purified products in human cells; molecular epidemiology and characteristics of Group A streptococcal strains, *Corynebacterium diphtheriae* and *ulcerans* strains isolated in Italy; adherence and invasive ability of *C. diphtheriae* (cell cultures HeLa, Hep 2).

Name and address of employer | Laboratory of Bacteriology, Istituto Superiore di Sanità, Viale Regina Elena, 299, 00161 Roma, Italy

Education and training

Dates | 1981-1985
 Title of qualification awarded | PhD with honors in Medical Microbiology
 Principal subjects/occupational skills covered | Title of thesis "Production of laccase A and B by a mutant strain of *Trametes versicolor fungus*"
 Name and type of organisation providing education and training | Medical School, University "La Sapienza", Rome -Italy

Dates | 1975-1980
 Title of qualification awarded | Degree with honors in Biological Sciences
 Principal subjects/occupational skills covered | Title of thesis "Studies on the antimicrobial activity of ovotransferrin toward stafilococci"
 Name and type of organisation providing education and training | University "La Sapienza", Rome -Italy

Dates | 1989 (March-June)
 Title of qualification awarded | Visiting Researcher
 Principal subjects/occupational skills covered | Comparatives studies on the adherence of group A Streptococci to human buccal and pharyngeal epithelial cells and to Hep-2 cells.
 Name and type of organisation providing education and training | University of Tennessee, Memphis, USA - Laboratory of Dr. E. Beachey.

Personal skills and competences

Mother tongue(s) | Italian
 Other language(s) | **German, English**

Self-assessment
 European level (*)

Understanding English		Speaking English				Writing English	
Listening		Reading		Spoken interaction		Spoken production	
B1		B2		B2		B2	

(*) [Common European Framework of Reference for Languages](#)

Organisational skills and competences | Budget and human resources management . Coordination of projects, working groups, batch release activity.

Technical skills and competences | Competent with procedures used for batch release controls of bacterial vaccines for human use (diphtheria, Hib vaccines, meningococcal); expertise in animal test for diphtheria: potency testing, specific toxicity, abnormal toxicity; cell culture methods; chromatographic methods for purification and K₀ determination; serological methods (ELISA, DELFIA, immunodiffusion, ecc).
 Expertise also in bacteria/fungi cultivation (fermentations), identification; proteins/polysaccharides extraction and purification, assay, ecc.

Computer skills and competences | Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™) for Windows and MAC

Other skills and competences

Reviewer for qualified international journals (i.e. J Clin Microbiol, Vaccine, J Chromath, Epidemiol and Infect., Eurosurveillance, Biologicals)
Participation to Collaborative studies of EDQM/NIBSC/WHO for the establishment of Ph Eur Biological references preparations; validation of serological methods for potency testing of diphtheria /tetanus /whole pertussis/acellular pertussis vaccines; validation of a chromatographic method for the determination of the polysaccharide content in Hib glycoconjugate vaccines.

Additional information

Research Activity: Responsible of projects or workpackages of Italian or European projects.

Main projects/workpackages:

- Biomed PL 951039 Project “European Seroepidemiology Collaboration for the investigation of vaccine preventable diseases” (ESEN 1) (1997-1999): workpackage of diphtheria seroepidemiology.
- Responsible of the Workpackage n°2 -Diphtheria in “European Seroepidemiology Network 2 (ESEN2) (Fifth Framework), Contract n° QLK2-CT-2000-00542 (2001-2005)
- Responsible of the project “Optimisation 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” – Contract with the Eu Commission n° CCR.IHCP.C431460.X0. (2005-2007)
- Responsible of the Workpackage n°9 “Serological Immunity to Diphtheria” of the European project “European Diphtheria Surveillance Network (DIPNET) Eu DGSANCO agreement n° 2005210 (1.11.2006 – 31.12.2009)
- Co-Project leader of the collaborative study BSP104 of EDQM (2010-2012)
- WHO – TSA (2013/331741-0): “Testing of Hib vaccine component in five liquid vaccine presentations by high-performance anion-exchange chromatography with pulsed amperometric detection” (2013-2014)

Participation to Projects

- VAC2VAC – Vaccine batch to batch comparison by consistency testing (IMI2, Grant Agreement 115924)

List of Publications

Publications: Author/co-author of 90 publications, 60 of which in peer reviewed international journals and 18 Italian national journals. Invited author for book chapters (n°8).

Participation to National and International Congresses also as invited speaker.

Abstracts: at International congresses, 100 Abstracts; at national (Italy) congresses, 27 Abstracts .

See attachment 1 for relevant publication on English

January 2018

Signature

Dr. Christina von Hunolstein

Attachment 1

1. P. Valenti, **C. von Hunolstein**, P. Visca, G. Antonini, N. Orsi and E. Antonini. (1981). Studies on the antibacterial activity of ovotransferrin. In P. Saltman and J. Hegenauer (eds.) "The biochemistry of Iron" Elsevier Biomedical, p.725-726.
2. P. Valenti, M. Guarino, P. Visca, **C. von Hunolstein**, G. Antonini, De Stasio, N. Orsi (1981). Resistance of genus *Proteus* to ovotransferrin. Boll. Ist. Sieroter. Milanese 60, 284-287.
3. P. Valenti, G. Antonini, **C. von Hunolstein**, P. Visca, N. Orsi and E. Antonini. (1983). Studies on the antimicrobial activity of ovotransferrin. Int. J. Tiss. Reac. V (1), 97-105.
4. ICamoni, A. Di Muccio, D. Pontecorvo, M. Rubbiani, V. Silano, L. Vergori, **C. von Hunolstein**, G. Antonini, N. Orsi, P. Valenti (1983). Lack of in vitro oxidation of 2,3,7,8, tetrachlorodibenzo-p-dioxin (TCDD) in the presence of laccase from *Polyporus versicolor* fungus. Chemosphere 12, 945-949.
5. **C. von Hunolstein**, P. Valenti, P. Visca, G. Antonini, L. Nicolini and N. Orsi (1986). Production of laccase A and B by a mutant strain of *Trametes versicolor*. J. Gen. Appl. Microbiol. 32, 185-191.
6. L. Nicolini, **C. von Hunolstein** and A. Carilli (1987). Solid state fermentation of orange peel and grape stalks by *Pleurotus ostreatus*, *Agrocibe aegerita* and *Armillariella mellea*. Appl. Microbiol. Biotechnol. 26, 95-98;
7. **C. von Hunolstein**, M.L. Ricci, R. Scenati and G. Orefici. (1987). Adherence of *S.bovis* to adult buccal epithelial cells. Microbiologica 10, 385-392.
8. A Molinari, **C. von Hunolstein**, G. Donelli, S. Paradisi, G. Arancia and G. Orefici (1987). Effects of some capsular components on pathogenicity of type IV and provisional type V group B streptococci. FEMS Microbiol. Letters 41, 69-72.
9. I Quinti, C. Papetti, **C. von Hunolstein**, G. Orefici, F. Aiuti. (1988). IgG subclasses to group B streptococci in normal, colonized women and IgG2 subclass deficient patients. Monogr. Allergy, 23, 148-155. A.
10. Molinari, G. Orefici, G. Donelli, **C. von Hunolstein**, S. Paradisi and G. Arancia. (1988). Preservation of capsular material of streptococcal cells by specific lectins determined by immunoelectron microscopy. Histochem. J. 20, 526-530.
11. L. Tissi, P. Mosci, P. Cornacchione, **C. von Hunolstein**, S. Recchia, G. Orefici, P. Alberti, F. Bistoni, P. Marconi (1989). A murine model of systemic infection with serotype IV Group B *Streptococcus*. J. Chemoth. Suppl. 4, 21-23.
12. L. Tissi, P. Marconi, P. Mosci, L. Merletti, P. Cornacchione, E. Rosati, S. Recchia, **C. von Hunolstein**, and G. Orefici. (1990). Experimental model of type IV *Streptococcus agalactiae* (Group B *Streptococcus*) infection in mice with early development of septic arthritis. Infect. Immun. 58,9, 3093-3100.
13. L. Tissi, P. Marconi, P. Mosci, P. Cornacchione, E. Rosati, G. Vitellozzi, M.L. Ricci, **C. von Hunolstein**, G. Orefici. (1991) Experimental septic arthritis induced by type IV Group B *Streptococcus* in mice. J. Chem. Suppl. 4, 195-196.
14. E. Guerra, **C. von Hunolstein**, I. Quinti, S. Recchia, M. Stegagno, E. Visconti and G. Orefici. (1992). Antibody production in infants born to HIV-1 infected mothers. Zbl. Bakt. 276, 429-436.
15. H.S. Courtney, **C. von Hunolstein**, J.B. Dale, M.S. Bronze, E.H. Beachey and D.L. Hasty. (1992). Lipoteichoic acid and M protein: dual adhesins of group A streptococci. Microb. Pathog. 12, 199-208.
16. **C von Hunolstein**, M.L. Ricci, P. Valenti and G. Orefici. (1992). Lack of activity of transferrins towards *Streptococcus* spp. Med. Microbiol. Immunol. 181: 351-357.
17. **C von Hunolstein**, L. Nicolini, S. D'Ascenzi, C. Volpe, G. Alfarone and G. Orefici. (1993). Sialic acid and biomass production by *Streptococcus agalactiae* under different growth conditions. Appl. Microbiol. Biotechnol. 38: 458-462.
18. **C.von Hunolstein**, M.L. Ricci and G. Orefici. (1993). Adherence of glucan -positive and glucan-negative strains of *Streptococcus bovis* to human epithelial cells. J. Med. Microbiol. 39: 53-57.
19. **C. von Hunolstein**, S. D'Ascenzi, B. Wagner, J. Jelinkova, G. Alfarone, S. Recchia, M. Wagner and G. Orefici. (1993). Immunochemistry of capsular type polysaccharide and virulence properties of type VI *Streptococcus agalactiae* (Group B Streptococci). Infect. Immun. 61: 1272-1280.
20. G. Mancuso, F. Tomasello, **C.von Hunolstein**, G. Orefici and G. Teti. (1994). Induction of tumor necrosis factor alpha by the group- and type specific polysaccharides from type III group B streptococci. Infect. Immun. 62, 2748-2753.
21. L. Scaringi, L. Tissi, P. Cornacchione, E. Rosati, C. Campanelli, **C. von Hunolstein**, G. Orefici, R. Ruggero, P. Marconi. (1994). Antibody-independent protection in mice against type Ia, group B *Streptococcus* lethal infection. FEMS Immunol. Microbiol. 9, 151-162.
22. G. Kogan, D. Uhrin, JR Brisson, L.C. Paoletti, D.L.Kasper, **C. von Hunolstein**, G. Orefici, H.J.Jennings. (1994). Structure of the type VI group B *Streptococcus* capsular polysaccharide determined by high resolution NMR spectroscopy. J. Carboh. Chem. 13, 1071-1078.
23. **C. von Hunolstein**, A. Efstratiou, R. La Valle, G. Gentili, S. Pestalozza, M.T. Mascellino, R. Rappuoli, G. Orefici and A. Cassone. (1995). An imported fatal case of diphtheria in Italy. Eur. J. Clin. Microbiol. Infect. Dis. 14,828-830.
24. L. Tissi, **C. von Hunolstein**, P. Mosci, C. Campanelli, F. Bistoni and G. Orefici. (1995). In vivo efficacy of azythromycin in treatment of systemic infection and septic arthritis induced by type IV group B Streptococcus strains in mice: comparative study with erythromycin and penicillin G. Ant. Agent. Chem. 39, 1938-1947.
25. G. Kogan, JR Brisson, D.L.Kasper, **C.von Hunolstein**, G. Orefici, H.J. Jennings. (1995). Structural elucidation of the novel type VII group B *Streptococcus* capsular polysaccharide by high resolution NMR spectroscopy. Carbohydr. Res. 277, 1-9.
26. M.L. Ricci, **C. von Hunolstein**, M.J. Gomez, L. Parisi, L. Tissi and G. Orefici. (1996). Protective activity of a murine monoclonal antibody against acute and chronic experimental infection with type IV group B streptococcus. J. Med. Microbiol. 44, 475-481.
27. **C. von Hunolstein**, A. Totolian, G. Alfarone, G. Mancuso, V. Cusumano, G. Teti, G. Orefici. (1997). Soluble antigens from group B Streptococci induce cytokine production in human blood cultures. Infect. Immun. 65, 4017-4021.

28. A. Sensini, L. Tissi, N. Verducci, M. Orofino, **C. von Hunolstein**, B. Brunelli, G.L. Malà, F. Perocchi, R. Brunelli, V. Lauro, R. Ferrarese, G. Gilardi. (1997). Carriage of group B *Streptococcus* in pregnant women and newborns: a 2- years study at Perugia general hospital. Clin. Microbiol. Infect. 3, 324 - 328.
29. **von Hunolstein**, A. Totolian , G. Alfarone, G. Teti, G. Orefici. (1997). Cytokine production in an ex vivo whole blood model following induction by group B Streptococcal polysaccharides and lipoteichoic acid. Adv. Exp. Med. Biol., 418, 893-895.
30. **von Hunolstein**, B. Suligoj, M. Pataracchia, S. Recchia, D. Greco, G. Orefici. (1997). Clinical and microbiological characteristics of severe group A streptococcal infections in Italy . Adv. Exp. Med. Biol., 418, 79-81
31. B. Suligoj, **C. von Hunolstein**, G. Orefici, F. Scopetti, M. Pataracchia, D. Greco. (1998) Surveillance of systemic invasive disease caused by group A Streptococcus in Italy, 1994 -1997. EURO Surveillance, 3, 11-14.
32. P. Cornacchione, L. Scaringi, K. Fettucciari, E. Rosati, R. Sabatini, G. Orefici, **C. von Hunolstein**, A. Modesti, A. Modica, F. Minelli, P. Marconi. (1998) Group B streptococci persist inside macrophages. Immunology, 93, 86-95.
33. L. Tissi, **C. von Hunolstein**, F. Bistoni, M. Maranghi, L. Parisi and G. Orefici. (1998) Role of group B streptococcal capsular polysaccharides in the induction of septic arthritis. J. Med. Microbiol. 47, 717-723.
34. R. Greco, **C. von Hunolstein**, G. Orefici, G. Donnarumma, M. Polidoro, F. Modica, M. Nicoletti and P. Valenti. (1998) Protein M and fibronectin-binding proteins are not sufficient to promote internalization of group A streptococci into HELA cells. Inter. J Immunopath. Pharmac. 11, 163-169.
35. **C. von Hunolstein**, L. Parisi, S. Recchia. (1999) A routine high-performance size exclusion chromatography to determine molecular size distribution of *Haemophilus influenzae* type b conjugate vaccines. Vaccine 17, 118-125.
36. L. Parisi e **C. von Hunolstein** (1999) Determination of the molecular size distribution of *Haemophilus influenzae* type b tetanus toxoid conjugate vaccines by size exclusion chromatography. J. Chromatography A, 847, 209-211.
37. **C. von Hunolstein**, L. Parisi, L. Tissi, S. Recchia, G. Alfarone, L. Nicolini, C. Volpe, B. Wagner, J. Motlova and G. Orefici. (1999) Virulence properties of type VII *Streptococcus agalactiae* (Group B Streptococci) and Immunochemical analysis of capsular type polysaccharide. J. Med. Microbiol. 48, 983-990.
38. L. Tissi, M. Puliti, R. Barluzzi, G. Orefici, **C. von Hunolstein**, F. Bistoni, (1999) Role of tumor necrosis factor alfa, interleukin-1alfa and interleukin-6 in a mouse model of Group B streptococcal arthritis. Infect. Immun. 67, 4545-4550.
39. M. Cuzzola, G. Mancuso, C. Beninati, C. Biondo, **C. von Hunolstein**, G. Orefici, T. Espevik, T. H. Flo and G. Teti (2000) Human monocyte receptors involved in tumor necrosis factor responses to group B streptococcal products. Infect. Imm. 68, 994-998.
40. **C. von Hunolstein**, R Teloni, S Mariotti, S Recchia, G. Orefici and R Nisini. (2000) Synthetic oligodeoxynucleotide containing CpG motif induces an antipolysaccharide type I like immune response after immunization of mice with *Haemophilus influenzae* type b conjugate vaccine. International Immunology. 12,295-303.
41. **C. von Hunolstein**, MC Rota , G. Alfarone, ML Ricci, S. Salmaso and the Italian Serology Working Group (2000) Immunity to diphtheria in the Italian population. Eur. J. Clin. Microbiol. Infect Dis 19,433-7.
42. **C. von Hunolstein**, H. Aggerbeck, N. Andrews, G. Berbers, F. Fievet-Groyne, PCA Maple, RM Olander, M Raux, A Tischer (2000) European sero-epidemiology network: standardisation of the results of diphtheria antitoxin assays. Vaccine. 18(28):3287-96.
43. Puliti M, Nizet V, **von Hunolstein C**, F. Bistoni , P Mosci, G Orefici, L Tissi. (2000). Severity of group B Streptococcal arthritis is correlated with beta-hemolysin hpxpression. J Infect Dis. 182, 824-832.
44. Edmunds J, RG Pebody, H. Aggerbeck, S Baron, G. Berbers, MAE Conyn-van Spaendonck, H Hallander, RM Olander , PCA Maple, HE De Melke, P Olin, F. Fievet-Groyne, C Rota, S Salmaso, A Tischer, **C von Hunolstein** and E Miller. (2000). The seroepidemiology of diphtheria in Western Europe. Epid Infect 125, 113-125.
45. Corti G, Bartoloni A, **von Hunolstein C**, Scopetti F, Buonomini MI, Galligani R , Paradisi F (2000). Invasive *Streptococcus pyogenes* infection in a surgeon after occupational exposure. Clinic Microbiol Infect 6, 170-171
46. Puliti M, **von Hunolstein C**, Bistoni F, P. Mosci, G Orefici, L Tissi. (2000). Influence of interferon-alfa on the severity of experimental group B Streptococcal arthritis. Arthritis and Rheumatism 43, 2678- 2686.
47. Puliti M, Bistoni F, **von Hunolstein C**, G Orefici, L Tissi. (2001). Severity of group B Streptococcal arthritis in selected strains of laboratory mice. Infect Imm 69, 551-555.
48. **von Hunolstein C**, Mariotti S, Teloni R, Alfarone G, Romagnoli G, Orefici G, Nisini R. (2001).The adjuvant effect of synthetic oligodeoxynucleotide containing CpG motif converts the anti-*Haemophilus influenzae* type b glycoconjugates into efficient anti-polysaccharide and anti-carrier polyvalent vaccines. Vaccine 19:3058-66
49. Ciofi degli Atti M, Salmaso S, Cotter B, Gallo G, Alfarone G, Pinto A, Bella A, **von Hunolstein C**. (2001) Reactogenicity and immunogenicity of adult versus paediatric diphtheria and tetanus booster dose at 6 years of age. Vaccine, 20: 74-79.
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51. Immunogenicity of anti *Haemophilus influenzae* type b CRM197 conjugate following mucosal vaccination with oligodeoxynucleotide containing immunostimulatory sequences. Vaccine 20: 2229-2239.
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54. Puliti M, **von Hunolstein C**, Bistoni F, Mosci P, G Orefici, L Tissi. (2002) The beneficial effect of Interleukin-12 on arthritis induced by group B streptococci is mediated by interferon-alfa and interleukin-10 production. Arthritis and Rheumatism 46,806-817.

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56. **von Hunolstein C**, Parisi L, Bottaro D. (2003) Simple and rapid technique for monitoring the quality of meningococcal polysaccharides by high performance size-exclusion chromatography. *J Biochem Biophys Methods.* 56:291-6.
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