

Curriculum Vitae and Publication List for Jon Nissen-Meyer

Person: Jon Nissen-Meyer

Birth: 06.06.48, Sogn, Norway

Education: University of California, Berkeley: 1967-68
University of Bergen: 1968-75 (cand mag. 1973, grade: 1.39; cand.real. 1975, grade 1.25)
Dr.philos.-degree at the University of Bergen: 1982.

Current Position: Professor in biochemistry at the University of Oslo from 1992 to present.
Vice-chairman of the Biochemistry Department: 01.01.93-31.12.96.
Chairman of the Biochemistry Department: 01.01.1997-30.09.03.

Previous Positions:

- (i) Research assistant at the Norwegian Defence Research Establishment: 1975-76.
- (ii) Norwegian Cancer Society Fellowship at:
Department of Biochemistry, University of Bergen: 1976-78, 1979-80
Institute of Cancer Research, Norwegian Radium Hospital: 1978-79.
- (iii) Senior scientist at:
Institute of Cancer Research in Trondheim, University of Trondheim: 1981-88.
Laboratory of Microbial Gene Technology, Agricultural University of Norway: 1988-92.

Scientific Publications:

- About 120 articles (cited more than 5,000 times) in international scientific journals/books.
- More than 100 presentations/abstracts at international scientific meetings.

Previous research activities/experience:

- (i) Studied synthesis/degradation of ribosomes/rRNA in eukaryotes (master degree student - 1973-75; 3 articles, published in *Journal of Molecular Biology* and *Experimental Cell Research*).
- (ii) Studied DNA repair and repair enzymes (as research assistant in military service - 1975-76 – and as dr. philos. fellow - 1976-80; 4 articles, including one in *Nature*).
- (iii) Characterised nucleic acid interacting proteins in retroviruses, particularly the integrase and nucleocapsid protein in murine leukemia virus (as dr.philos fellow - 1977-80; 8 articles in international scientific journals, including *Journal of Molecular Biology*, *Journal of Biological Chemistry*, *Journal of Virology*, *Nucleic Acids Research*, *Analytical Biochemistry*).
- (iv) Studied how monocytes kill tumour cells (mechanism behind monocyte-mediated cytotoxicity) and the proteins - among them tumour necrosis factor - involved in this process (as senior scientist at the Institute of Cancer Research in Trondheim – 1981-88; 32 articles in international scientific journals, mostly immunology and cancer related journals such as *Infection and Immunity*, *Cellular Immunology*, *Immunology*, *Cancer Research*, *International Journal of Cancer*; received Onkologisk Forums Research Award in 1987; member of the organising committee for The First International Conference on Tumour Necrosis Factor and Related Cytotoxins, Heidelberg 1987).

Current research activities: *Characterisation of ribosomally synthesized antimicrobial peptides: their function, structure, biogenesis and mechanism of action* (1988-1992: as senior scientist at the Laboratory of Microbial Gene Technology, Agricultural University of Norway, and from 1992 as professor at the University of Oslo). More than 60 articles in this area of research; mostly in American Society for Microbiology Journals (*Journal of Bacteriology*; *Applied and Environmental Microbiology*), but also in *Biochemistry*, *Journal of Biological*

Chemistry, European Journal of Biochemistry, Journal of General Microbiology (Microbiology), and Archives of Microbiology). Identified, isolated and or characterised – structurally (primary), functionally and genetically – about 30 different peptides, mostly produced by lactic acid bacteria, although peptides in the skin mucus of fish have also recently been identified. Our research group has especially focused on elucidating the structure (by NMR-spectroscopy and X-ray crystallography) and the mode of action of antimicrobial peptides and their corresponding immunity proteins that protects cells from the toxic effect of the peptides. We can show to more than 10 NMR-structures, and one crystal structure. Using insight gained from these studies, research is also focused on the construction of new and more optimal peptide variants. Member of the Scientific Committee for *The Second International Symposium on Antimicrobial Peptides: Food, Veterinary, Medical and Novel Applications* in Saint Malo, France, 17-19 June 2009; and invited speaker at the *Gordon Research Conference on Antimicrobial Peptides* to be held 15.05.11-20.05.11 in Il Ciocca, Barga, Italy.

Publications in international scientific journals and books

1. **J. Nissen-Meyer & T.S. Eikhom. 1976.**
An excess of the small ribosomal subunits and a higher rate of turnover of the 60S than the 40S ribosomal subunits in L cells grown in suspension culture.
Journal of Molecular Biology 101, 211-221.
2. **J. Nissen-Meyer & T.S. Eikhom. 1976.**
Effect of the growth conditions on the ratio between native 40S and 60S ribosomal subunits in various cell types.
Experimental Cell Research 98, 41-46.
3. T.S. Eikhom, **J. Nissen-Meyer**, E. Vangdal & K.A. Abraham. **1978.**
A growth-dependent excess of 40S ribosomal subunits in plasmacytoma cells grown in suspension culture.
Experimental Cell Research 112, 257-264.
4. E. Seeberg, **J. Nissen-Meyer** & P. Strike. **1976.**
Incision of ultraviolet-irradiated DNA by extracts of *E. coli* requires three different gene products.
Nature 263, 524-526.
5. E. Seeberg, A.L. Steinum, E. Rivedal & **J. Nissen-Meyer. 1978.**
In vitro characterization of the *uvrA*, *uvrB*, *uvrC*-coded ATP-dependent UV-endonuclease from *Escherichia coli*.
In: *DNA Synthesis: Present and Future*. Ed. I. Molineux & M. Kohiyama. Plenum Publ. Corp. 967-978.
6. I.F. Nes & **J. Nissen-Meyer. 1978.**
UV endonucleolytic activity in extracts from mouse cells.
In: *DNA Synthesis: Present and Future*. Ed. I. Molineux & M. Kohiyama. Plenum Publ. Corp. 989-998.
7. I.F. Nes & **J. Nissen-Meyer. 1978.**
Endonuclease activities from a permanently established mouse cell line that act upon DNA damaged by ultraviolet light, acid and osmium tetroxide.
Biochimica et Biophysica Acta 520, 111-121.
8. **J. Nissen-Meyer**, A. Åbro & T.S. Eikhom. **1979.**
Isolation of intracisternal type A-particles and associated high-molecular-weight RNA after cell disruption by nitrogen cavitation.
Analytical Biochemistry 97, 85-94.
9. **J. Nissen-Meyer** & A.K. Abraham. **1980.**
Specificity of RNA binding by the structural protein (p10) of Friend murine leukemia virus.
Journal of Molecular Biology 142, 19-28.
10. **J. Nissen-Meyer** & I.F. Nes. **1980.**
Characterization of an endonuclease activity associated with Friend murine leukemia virus.
Biochimica et Biophysica Acta 609, 148-157.
11. **J. Nissen-Meyer** & I.F. Nes. **1980.**
Purification and properties of DNA endonuclease associated with Friend leukemia virus.
Nucleic Acids Research 8, 5043-5055.

12. **J. Nissen-Meyer, A.J. Raae & I.F. Nes. 1981.**
Effect of ATP on the Friend murine leukemia virus-associated endonuclease activity and the endonuclease activity of the avian myeloblastosis virus RNA-directed DNA polymerase.
Journal of Biological Chemistry 256, 7985-7989.
13. A.J. Raae & **J. Nissen-Meyer. 1981.**
DNA-joining activity associated with a murine retrovirus.
Biochemical and Biophysical Research Communication 98, 907-914.
14. **J. Nissen-Meyer & T.S. Eikhom. 1981.**
Properties of an intracisternal A-particle-associated endonuclease activity which is stimulated by ATP.
Journal of Virology 40, 927-931.
15. **J. Nissen-Meyer & J. Hammerstrøm. 1982.**
Physicochemical characterization of cytostatic factors released from human monocytes.
Infection and Immunity 38, 67-73.
16. O.-J. Iversen, **J. Nissen-Meyer & A.B. Dalen. 1983.**
Characterization of virus-like particles from a psoriatic patient with respect to the possible presence of particle-associated RNA and RNA-directed DNA polymerase.
Acta Path. Microbiol. Immunol. Scand. Sect. B. 91, 413-417.
17. **J. Nissen-Meyer & S. Seim. 1983.**
Effect of human monocyte released cytostatic factors on target cell DNA synthesis, protein synthesis, and ATP content.
Scandinavian Journal of Immunology 18, 465-470.
18. **J. Nissen-Meyer & O. Kildahl-Andersen. 1984.**
Purification of cytostatic protein factors released from human monocytes.
Scandinavian Journal of Immunology 20, 317-325.
19. O. Kildahl-Andersen & **J. Nissen-Meyer. 1984.**
Effect of lymphokines on the production of cytostatic protein factors from human monocytes.
Cellular Immunology 89, 365-375.
20. O. Kildahl-Andersen & **J. Nissen-Meyer. 1985.**
Production and characterization of cytostatic factors released from human monocytes during exposure to lipopolysaccharide and muramyl dipeptide.
Cellular Immunology 93, 375-386.
21. O. Kildahl-Andersen, T. Espevik & **J. Nissen-Meyer. 1985.**
IFN-gamma-induced production of monocyte cytotoxic factor.
Cellular Immunology 95, 392-406.
22. O. Kildahl-Andersen, O. Bakke & **J. Nissen-Meyer. 1985.**
Human monocyte-released cytotoxic factor: Modulation of cytotoxic activity by inhibitors of cellular DNA, RNA and protein synthesis.
Scandinavian Journal of Immunology 22, 251-258.
23. O. Kildahl-Andersen & **J. Nissen-Meyer. 1985.**
The role of monocyte cytotoxic factor (CF) in cytostasis mediated by IFN-gamma-activated monocytes.
Immunology 56, 367-372.
24. T. Espevik, O. Kildahl-Andersen & **J. Nissen-Meyer. 1986.**
The role of monocyte cytotoxic factor in monocyte-mediated lysis of tumour cells.
Immunology 57, 255-259.
25. O. Kildahl-Andersen, R. Austgulen & **J. Nissen-Meyer. 1986.**
WEHI 164 sarcoma cells rendered resistant to monocyte-released cytotoxin are also resistant to monocyte-induced cytolysis.
Cancer Immunology Immunotherapy 21, 77-80.
26. R. Austgulen, J. Hammerstrøm, T. Espevik & **J. Nissen-Meyer. 1986.**
Human monocyte cytotoxic factor mediates cytolysis of WEHI 164 cells.
Cellular Immunology 98, 211-220.
27. **J. Nissen-Meyer, O. Kildahl-Andersen & R. Austgulen. 1986.**
Human monocyte-released cytotoxic factor: Effect on various cellular functions, and dependency of cytolysis on various metabolic processes.
Journal of Leukocyte Biology 40, 121-132.

28. R. Austgulen, T. Espevik, J. Hammerstøm & **J. Nissen-Meyer. 1986.**
Role of monocyte cytotoxic factor in cytolysis of actinomycin D-treated WEHI 164 cells mediated by freshly isolated human adherent mononuclear blood cells.
Cancer Research 46, 4566-4570.
29. T. Espevik & **J. Nissen-Meyer. 1986.**
A highly sensitive cell line, WEHI 164 clone 13, for measuring cytotoxic factor/tumor necrosis factor from human monocytes.
Journal of Immunological Methods 95, 99-105.
30. **J. Nissen-Meyer**, R. Austgulen & T. Espevik. **1987.**
Comparison of recombinant tumor necrosis factor and monocyte-derived cytotoxic factor involved in monocyte-mediated cytotoxicity.
Cancer Research 47, 2251-2258.
31. K.S. Bjerve, T. Espevik, O. Kildahl-Andersen & **J. Nissen-Meyer. 1987.**
Effect of free fatty acids on the cytolytic activity of tumor necrosis factor/monocyte-derived cytotoxic factor.
Acta Path. Microbiol. Scand. Sect. C 95, 21-26.
32. T. Espevik & **J. Nissen-Meyer. 1987.**
Tumour necrosis factor-like activity on paraformaldehyde-fixed monocyte monolayers.
Immunology 61, 443-448.
33. **J. Nissen-Meyer** & T. Espevik. **1987.**
Effect of antisera against recombinant tumor necrosis factor and the monocyte-derived cytotoxin(s) on monocyte-mediated killing of various tumor cells.
Cellular Immunology 109, 384-396.
34. R. Austgulen, J. Hammerstrøm & **J. Nissen-Meyer. 1987.**
In vitro cultured human monocytes release fibroblast proliferation factor(s) different from interleukin 1.
Journal of Leukocyte Biology 42, 1-8.
35. R. Austgulen, **J. Nissen-Meyer**, M. Degre & T. Espevik. **1987.**
Monocyte-derived influence on growth of normal human fibroblasts: The contribution of tumor necrosis factor to growth inhibition.
Scandinavian Journal of Immunology 26, 175-185.
36. R. Austgulen, T. Espevik & **J. Nissen-Meyer. 1987.**
Fibroblast growth stimulatory activity released from human monocytes: The contribution of tumor necrosis factor.
Scandinavian Journal of Immunology 26, 621-629.
37. E. Hofslis, R. Austgulen & **J. Nissen-Meyer. 1987.**
Lymphotoxin-induced growth stimulation of diploid human fibroblasts in the presence and absence of gamma interferon.
Scandinavian Journal of Immunology 26, 585-588.
38. R. Austgulen & **J. Nissen-Meyer. 1988.**
A physico-chemical comparison of the monocyte-derived fibroblast growth factor and the tumor necrosis factor.
APMIS 96, 352-356.
39. **J. Nissen-Meyer**, E. Hofslis, T. Espevik & R. Austgulen. **1988.**
Involvement of tumor necrosis factor in cytotoxicity mediated by human monocytes.
Natural Immunity and Cell Growth Regulation 7, 266-279.
40. E. Hofslis, J. Lamvik & **J. Nissen-Meyer. 1988.**
Evidence that tumour necrosis factor (TNF) is not constitutively present in vivo: The association of TNF with freshly isolated monocytes reflects a rapid in vitro production.
Scandinavian Journal of Immunology 28, 435-441.
41. **J. Nissen-Meyer**, R. Austgulen & T. Espevik. **1988.**
Synergistic growth-inhibitory activity of tumour necrosis factor and alpha interferon: Contribution to the monocyte-derived cytostatic activity towards human leukemia K562 cells.
Scandinavian Journal of Immunology 28, 627-637.
42. A. Waage, T. Espevik, O. Bakke, A. Halstensen, P. Brandtzaeg, P. Kierulf, **J. Nissen-Meyer** & J. Lamvik. **1988.**
Tumour necrosis factor in human septicaemia.
In: *Tumor Necrosis Factor/Cachectin and Related Cytokines*. pp. 148-153. Ed. Bonavida, Gifford, Kirchner & Old.
43. E. Hofslis & **J. Nissen-Meyer. 1989.**
Recombinant tumour necrosis factor (TNF) fixed to cell monolayers retains its cytotoxic and growth-stimulatory

- activity: Evidence that internalization of TNF is not necessary for induction of biological effects. *Scandinavian Journal of Immunology* 29, 57-63.
44. Y. Paulsen, R. Austgulen, E. Hofslis, C.-H. Heldin, B. Westermark & **J. Nissen-Meyer. 1989.**
Tumor necrosis factor-induced expression of platelet-derived growth factor A-chain messenger RNA in fibroblasts. *Experimental Cell Research* 180, 490-496.
 45. E. Hofslis & **J. Nissen-Meyer. 1989.**
Effect of erythromycin and tumour necrosis factor on the drug resistance of multidrug-resistant cells: Reversal of drug resistance by erythromycin. *International Journal of Cancer* 43, 520-525.
 46. E. Hofslis & **J. Nissen-Meyer . 1989.**
Reversal of drug resistance by erythromycin: Erythromycin increases the accumulation of actinomycin A and doxorubicin in multidrug-resistant cells. *International Journal of Cancer* 44, 149-154.
 47. E. Hofslis & **J. Nissen-Meyer. 1990.**
Reversal of multidrug resistance by lipophilic Drugs. *Cancer Research* 50, 3997-4002.
 48. **J. Nissen-Meyer** & K. Sletten. **1991.**
Purification and characterization of the free form of the lactococcal extracellular proteinase and its autoproteolytic cleavage products. *Journal of General Microbiology* 137, 1611-1618.
 49. H. Næs, J. Chrzanoska, **J. Nissen-Meyer**, B.O. Pedersen & H. Blom. **1991.**
Fermentation of dry sausage: The importance of proteolytic and lipolytic activities of lactic acid bacteria. *Proceedings of the 37th International Congress of Meat Science and Technology. Vol. 2*, 914-917.
 50. C.I. Mørtvedt, **J. Nissen-Meyer**, K. Sletten, & I.F. Nes. **1991.**
Purification and amino acid sequence of lactococin S, a bacteriocin produced by *Lactobacillus sake* L45. *Applied and Environmental Microbiology* 57, 1829-1834.
 51. **J. Nissen-Meyer**, D. Lillehaug & I.F. Nes. **1992.**
The plasmid-encoded lactococcal envelope-associated proteinase is encoded by a chromosomal gene in *Lactococcus lactis* subsp. *cremoris* BC101. *Applied and Environmental Microbiology* 58, 750-753.
 52. H. Næs & **J. Nissen-Meyer. 1992.**
Purification and N-terminal amino acid sequence determination of the cell-wall-bound proteinase from *Lactobacillus paracasei* subsp. *paracasei*. *Journal of General Microbiology* 138, 313-318.
 53. G. Stoffels, **J. Nissen-Meyer**, A. Gudmundsdottir, K. Sletten & I.F. Nes. **1992.**
Purification and characterization of a new bacteriocin isolated from a *Carnobacterium* sp. *Applied and Environmental Microbiology* 58, 1417-1422.
 54. P.S. Tichaczek, **J. Nissen-Meyer**, I.F. Nes, R.F. Vogel & W.P. Hammes. **1992.**
Characterization of the bacteriocin curvacin A from *Lactobacillus curvatus* LTH1174 and sakacin P from *L. sake* LTH673. *Systematic and Applied Microbiology* 15, 460-468.
 55. J.C. Nieto Lozano, **J. Nissen-Meyer**, K. Sletten, C. Pelaz & I.F. Nes. **1992.**
Purification and amino acid sequence of a bacteriocin produced by *Pediococcus acidilactici*. *Journal of General Microbiology* 138, 1985-1990.
 56. **J. Nissen-Meyer**, H. Holo, L.S. Håvarstein, K. Sletten & I.F. Nes. **1992.**
A novel lactococcal bacteriocin whose activity depends on the complementary action of two peptides. *Journal of Bacteriology* 174, 5686-5692.
 57. **J. Nissen-Meyer**, A.G. Larsen, K. Sletten, M. Daeschel & I.F. Nes. **1993.**
Purification and characterization of plantaricin A, a *Lactobacillus plantarum* bacteriocin whose activity depends on the action of two peptides. *Journal of General Microbiology* 139, 1973-1978.
 58. M.I. Chikindas, M.J. Garcia-Garcera, A.J.M. Driessen, A.M. Lederboer, **Jon Nissen-Meyer**, I.F. Nes, T. Abbe, W.N. Konings & G. Venama. **1993.**
Pediocin PA-1, a bacteriocin from *Pediococcus acidilactici* PAC1.0, forms hydrophilic pores in the cytoplasmic membrane of target cells. *Applied and Environmental Microbiology* 59, 3577-3584.

59. **J. Nissen-Meyer, L.S. Håvarstein, H. Holo, K. Sletten & I.F. Nes. 1993.**
Association of the lactococcin A immunity factor with the cell membrane: Purification and characterization of the immunity factor.
Journal of General Microbiology 139, 1503-1509.
60. I.F. Nes, C.I. Mørtvedt, **Jon Nissen-Meyer**, & M. Skaugen. **1994.**
Lactocin S, a lanthionine-containing bacteriocin isolated from *Lactobacillus sake* L45.
In: *Bacteriocins of Lactic Acid Bacteria*. Edited by L. De Vuyst and E.J. Vandamme. Blackie Academic & Professional. Pp. 435-449.
61. D.P. Diep, L.S. Håvarstein, **J. Nissen-Meyer** & I.F. Nes. **1994.**
The gene encoding plantaricin A, a bacteriocin from *Lactobacillus plantarum* C11, is located on the same transcriptional unit as an *agr*-like regulatory system.
Applied and Environmental Microbiology 60, 160-166.
62. M. Skaugen, **J. Nissen-Meyer**, G. Jung, S. Stevanovic, K. Sletten, C.I. Mørtvedt-Abildgaard & I.F. Nes. **1994.**
In vivo conversion of L-serine to D-alanine in a ribosomally synthesized polypeptide.
Journal of Biological Chemistry 269, 27183-27185.
63. C.I. Mørtvedt-Abildgaard, **J. Nissen-Meyer**, B. Jelle, B. Grenov, M. Skaugen & I.F. Nes. **1995.**
Production and pH-dependent bactericidal activity of lactocin S, a lantibiotic from *Lactobacillus sake* L45.
Applied and Environmental Microbiology 61, 175-179.
64. G.M. Moll, T. Ubbink, H.H. Hauge, **J. Nissen-Meyer**, I.F. Nes, W.N. Konings & A.J.M. Driessen. **1996.**
Lactococcin G is a potassium ion-conducting, two component bacteriocin.
Journal of Bacteriology 178, 600-605.
65. G. Fimland, O. Blingsmo, K. Sletten, G. Jung, I.F. Nes & **J. Nissen-Meyer. 1996.**
New biologically active hybrid bacteriocins constructed by combining regions from various pediocin-like bacteriocins: the C-terminal region is important for determining specificity.
Applied and Environmental Microbiology 62, 3313-3318.
66. **J. Nissen-Meyer** & I.F. Nes. **1997.**
Ribosomally synthesized antimicrobial peptides: their function, structure, biogenesis, and mechanism of action (review).
Archives of Microbiology 167, 67-77.
67. **J. Nissen-Meyer**, H.H. Hauge, G. Fimland, V.G.H. Eijsink & I.F. Nes. **1997.**
Ribosomally synthesized antimicrobial peptides produced by lactic acid bacteria: Their function, structure, biogenesis, and their mechanism of action (review).
Recent Research Developments in Microbiology 1, 141-154.
68. G. Moll, H.H. Hauge, **J. Nissen-Meyer**, I.F. Nes, W.N. Konings & A.J.M. Driessen. **1998.**
Mechanistic properties of the two-component bacteriocin lactococcin G.
Journal of Bacteriology 180, 96-99.
69. H.H. Hauge, **J. Nissen-Meyer**, I.F. Nes & V.H. Eijsink. **1998.**
Amphiphilic alpha-helices are important structural motifs in the alpha and beta peptides that constitute the bacteriocin lactococcin G: Enhancement of helix formation upon alpha-beta interaction.
European Journal of Biochemistry 251, 565-572.
70. E.L. Anderssen, D.B. Diep, I.F. Nes, V.G.H. Eijsink & **J. Nissen-Meyer. 1998.**
Antagonistic activity of *Lactobacillus plantatum* C11: Two new two-peptide bacteriocins, plantaricin EF and JK, and the induction factor plantaricin A.
Applied and Environmental Microbiology 64, 2269-2272.
71. H.H. Hauge, D. Mantzilas, G.N. Moll, W.N. Konings, A.J.M. Driessen, V.G.H. Eijsink & **J. Nissen-Meyer. 1998.**
Plantaricin A is an amphiphilic alpha-helical bacteriocin-like pheromone which exerts antimicrobial and pheromone activities through different mechanisms.
Biochemistry 37, 16026-16032.
72. G. Fimland, R. Jack, G. Jung, I.F. Nes & **J. Nissen-Meyer. 1998.**
The bactericidal activity of pediocin PA-1 is specifically inhibited by a 15-mer fragment that spans the bacteriocin from the center toward the C terminus.
Applied and Environmental Microbiology 64, 5057-5060.
73. H.H. Hauge, D. Mantzilas, V.G.H. Eijsink & **J. Nissen-Meyer. 1999.**
Membrane-mimicking entities induce structuring of the two-peptide bacteriocins plantaricin E/F and plantaricin J/K.
Journal of Bacteriology 181, 740-747.

74. Ø. Røe, I Brondz, Ø.W. Rønning & **J. Nissen-Meyer. 1999.**
Isolation of a low-molecular-weight growth inhibitory factor from hybridoma cell cultures.
Biochemical and Biophysical Research Communication 254, 138-142.
75. G. Moll, E. van den Akker, H.H. Hauge, **J. Nissen-Meyer**, I.F. Nes, W.N. Konings & A.J.M. Driessen. **1999.**
Complementary and overlapping selectivity of the two-peptide bacteriocins plantaricin EF and JK.
Journal of Bacteriology 181, 4848-4852.
76. M.C. Martinez-Cuesta, G. Buist, J.Kok, H.H. Hauge, **J. Nissen-Meyer**, C. Pelaez & T. Requena. **2000.**
Biological and molecular characterization of a two-peptide lantibiotic produced by *Lactococcus lactis* IFPL105.
Journal of Applied Microbiology 89, 249-260.
77. G. Fimland, L. Johnsen, L. Axelsson, M.B. Brurberg, I.F. Nes, V.G.H. Eijsink & **J. Nissen-Meyer. 2000.**
A C-terminal disulfide bridge in pediocin-like bacteriocins renders bacteriocin activity less temperature dependent and is a major determinant of the antimicrobial spectrum.
Journal of Bacteriology 182, 2643-2648.
78. L. Johnsen, G. Fimland, V.G.H. Eijsink & **J. Nissen-Meyer. 2000.**
Engineering increased stability in the antimicrobial peptide pediocin PA-1.
Applied and Environmental Microbiology 66, 4798-4802.
79. Spilsberg, B., Rise, F., Petersen, D. and **Nissen-Meyer, J. 2000.**
Secretion of thymidine by hybridoma cells.
In: *Advances in experimental medicine and biology: Purine and pyrimidine metabolism in man*. Ed. Zoref-Shani, E., and Sperling, O. Kluwer Academic/Plenum Publishers, New York, 486: 295-301.
80. I.F. Nes, H. Holo, G. Fimland, H.H. Hauge & **J. Nissen-Meyer. 2001.**
Unmodified peptide-bacteriocins (Class II) produced by lactic acid bacteria.
In: *Peptide Antibiotics, Discovery, Modes of Action and Applications*. Ed. Dutton, C., J., Haxell, M.A., McArthur, H.A.I. and Wax, R.G. 81-115
81. Andersen, G., Gundersen, L.L., **Nissen-Meyer, J.**, Rise, F. and Spilsberg, B. **2002.**
Cytotoxic and antibacterial activity of 2-oxopurine derivatives.
Bioorganic & Medicinal Chemistry Letters 12, 567-569.
82. Fimland, G., Eijsink, V. and **Nissen-Meyer, J. 2002.**
Comparative studies of immunity proteins of pediocin-like bacteriocins.
Microbiology 148, 3661-3670.
83. Fimland, G., Eijsink, V. and **Nissen-Meyer, J. 2002.**
Mutational analysis of the role of tryptophan residues in an antimicrobial peptide.
Biochemistry 41, 9508-9515.
84. Fimland, G., Sletten, K. and **Nissen-Meyer, J. 2002.**
The complete amino acid sequence of the pediocin-like antimicrobial peptide lecocin C.
Biochemical and Biophysical Research Communications 295, 826-827.
85. Gundersen, L.L., **Nissen-Meyer, J.** And Spilsberg, B. **2002.**
Synthesis and antimycobacterial activity of 6-arylpurines; the requirements for the N-9 substituent in active antimycobacterial purines.
Journal of Medicinal Chemistry 45, 1383-1386.
86. Kazazic, M., **Nissen-Meyer, J.**, and Fimland, G. **2002.**
Mutational analysis of the role of charged residues in the target-cell-binding, potency and specificity of the pediocin-like bacteriocin sacacin P.
Microbiology 148, 2019-2027.
87. Uteng, M. Hauge, H.H., Brondz, I., **Nissen-Meyer, J.** and Fimland, G. **2002.**
A rapid two-step procedure for large-scale purification of pediocin-like bacteriocins and other cationic antimicrobial peptides from complex culture medium.
Applied and Environmental Microbiology. 68, 952-956.
88. Lüders, T., Birkemo, G.A., Fimland, G., **Nissen-Meyer, J.** and Nes, I.F. **2003.**
Strong synergy between a eukaryotic antimicrobial peptide and bacteriocins from lactic acid bacteria.
Applied and Environmental Microbiology 69, 1797-1799.
89. Birkemo, G.A., Lüders, T. Andersen, Ø., Nes, I.F. and **Nissen-Meyer, J. 2003.**
Hipposin, a histone-derived antimicrobial peptide in Atlantic halibut.
Biochimica et Biophysica Acta 1646, 207-215.
90. Bråthe, A., Gundersen, L.L., **Nissen-Meyer, J.**, Rise, F. and Spilsberg, B. **2003.**

- Cytotoxic activity of 6-alkynyl- and 6-alkenylpurines.
 Bioorganic & Medicinal Chemistry Letters 13, 877-880.
91. Dalhus, B., Johnsen, L. and **Nissen-Meyer, J. 2003.**
 Crystallization and preliminary X-ray data investigation of the bacterial enterocin A immunity protein at 1.65 Å resolution.
 Acta Crystallographica D59, 1291-1293.
 92. Uteng, M., Hauge, H.H., Markwick, P., Mantzilas, D., Fimland, G., **Nissen-Meyer, J.** and Muhle-Goll, C. **2003.**
 Three-dimensional structure in lipid micelles of the pediocin-like antimicrobial peptide sakacin P and a sakacin P variant that is structurally stabilized by an inserted C-terminal disulfide bridge.
 Biochemistry 42, 11414-11426.
 93. Birkemo, G.A., Mantzilas, D., Lüders, T., Nes, I.F. and **Nissen-Meyer, J. 2004.**
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