

Curriculum Vitae

Personal information **Niina Makkonen**

Work experience

1. Employer: University of Kuopio, Department of Pharmaceutics
 - Start date: 1993
 - End date: 1997
 - Position: Project Researcher
 - Activities:
 - Country: Finland
2. Employer: University of Kuopio, Department of Pharmaceutics
 - Start date: 1997
 - End date: 012000
 - Position: Teacher,
 - Activities: Teacher in courses of pharmacokinetics and pharmaceutical technology.
 - Country: Finland
3. Employer: Schering Oy
 - Start date: 022000
 - End date: 082005
 - Position: Clinical Study Manager
 - Activities: GCP and clinical trial management.
 - Country: Finland
4. Employer: Finnish Medicines Agency
 - Start date: 092005
 - End date:
 - Position: Senior Researcher
 - Activities: Pharmaceutical assessment, bioequivalence and pharmacokinetics. Member of Nordic package group from May 2015 to August 2020.
 - Country: Finland

Education and training

1. Subject: University of Kuopio
 - Start date: 081986
 - End date: 121988
 - Qualification: B.Sc. in Pharmacy
 - Organisation:
 - Country: Finland
2. Subject: University of Kuopio
 - Start date: 081989
 - End date: 1993
 - Qualification: M.Sc. in Pharmacy
 - Organisation: Main subjects pharmaceutical technology and biopharmacy
 - Country: Finland
3. Subject: University of Kuopio
 - Start date: 1993
 - End date: 1998
 - Qualification: Ph.D. in Pharmacy
 - Organisation: Doctoral thesis in biopharmacy (liposomal drug delivery).
 - Country: Finland

Additional information

Publications

1. Pennanen N. Polynukleotidit tulevaisuuden lääkkeinä. (Polynucleotides as medicines of the future. In Finnish) Dosis 1993;4:158_165.
2. Mönkkönen J, Pennanen N, Lapinjoki S, Urtti A. Clodronate (dichloromethylene bisphosphonate) inhibits LPS_stimulated IL_6 and TNF_alpha production by RAW 264 cells. Life Sci 1994;54: PL229_PL234.
3. Mönkkönen J, Pennanen N, Lapinjoki S, Urtti A. Effect of free and liposome_encapsulated bisphosphonates on the cytokine secretion from activated macrophages. Proceed Intern Symp Control Rel Bioact Mater 1994;21:156_157.
4. Pennanen N, Lapinjoki S, Palander A, Urtti A, Mönkkönen J. Macrophage_like RAW 264 cell line and time_resolved fluoroimmunoassay (TRFIA) as tools in screening drug effects on cytokine secretion. Int J Immunopharmacol 1995;17:475_480.
5. Pennanen N, Lapinjoki S, Urtti A, Mönkkönen J. Effect of liposomal and free bisphosphonates on the IL_18, IL_6 and TNF_alpha secretion from RAW 264 cells in vitro. Pharm Res 1995;12:916_922.
6. Makkonen N, Hirvonen MR, Savolainen K, Lapinjoki S, Mönkkönen J. The effect of free gallium and gallium in liposomes on cytokine and nitric oxide secretion from macrophage_like cells in vitro. Inflamm Res 1995;44:523_528.
7. Makkonen N, Hirvonen MR, Teräväinen T, Savolainen K, Mönkkönen J. Different effects of three bisphosphonates on nitric oxide production by RAW 264 macrophage_like cells in vitro. J Pharmacol Exp Ther 1996;277:1097_1102.
8. Hirvonen MR, Nevalainen A, Makkonen N, Mönkkönen J, Savolainen K. Induced production of nitric oxide, tumor necrosis factor, and interleukin 6 in RAW264.7 macrophages by streptomycetes from indoor air of moldy houses. Arch Environ Health 1997;52:426_432.
9. Hirvonen MR, Nevalainen A, Makkonen N, Mönkkönen J, Savolainen K. Streptomyces spores from moldy houses induce nitric oxide, TNF_alpha and IL_6 secretion from RAW264.7 macrophage cell line without causing subsequent cell death. Environ Toxicol Pharmacol 1997;3:57_63.
10. Makkonen N, Salminen A, Rogers MJ, Frith JC, Urtti A, Azharyeva E, Mönkkönen J. Contrasting effects of alendronate and clodronate RAW 264 macrophages: the role of bisphosphonate metabolite. Eur J Pharm Sci 1999;8:109_118.
11. Mönkkönen J, Makkonen N, Rogers MJ, Frith JC, Auriola S. Effects of Bisphosphonates on the inflammatory processes of activated macrophages. Phosphorus, Sulfur and Silicon 1999;144_146:321_324.
- 12.

Mönkkönen H, Rogers MJ, Makkonen N, Niva S, Auriola S, Mönkkönen J. The cellular uptake and metabolism of clodronate in RAW 264 macrophages. Pharm Res 2001, 18;1550_1555.

[Projects](#)

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