

## Appendix 4, 5, 6

### Presentation of contact persons / course organizers / lecturers

Lastname <b>Rita</b>		First name <b>Hannu Juhani</b>		Sex <b>Male</b>	Title/Position <b>Researcher &amp; Lecturer</b>
University <b>University of Helsinki</b>					Academic degree <b>Msc, Phil.Lic., PhD</b>
Department/Institution <b>Dept. of ecology and systematics &amp; Faculty of agriculture and forestry</b>					Telephone (work) <b>+358-(0)9-191 28815</b>
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Postal code <b>00014</b>	City <b>Helsinki</b>	Country <b>Finland</b>	E-mail <b>hannu.rita@helsinki.fi</b>		
Subject area (See page 5) <b>Statistics</b>					
Brief presentation of f...					
<b>Present</b>					
<ul style="list-style-type: none"><li>• Researcher (funded by Finnish Academy), Dept of Ecology and Systematics, University of Helsinki</li><li>• Lecturer in applied mathematics, Faculty of Agriculture and Forestry, University of Helsinki, on leave</li></ul>					
<b>Employment</b>					
<ul style="list-style-type: none"><li>• Teaching assistant, Department of Mathematics, University of Helsinki, 1975 – 1980</li><li>• Assistant (deputy), Department of Mathematics, University of Helsinki, 1981 – 1984</li><li>• Lecturer in applied mathematics (deputy), Faculty of Agriculture and Forestry, University of Helsinki, 1984 – 1988</li><li>• Lecturer in applied mathematics, Faculty of Agriculture and Forestry, University of Helsinki, 1988 – 1997, 1998</li><li>• Post-doctoral research position, Department of Ecology and Systematics, University of Helsinki 1997-2000</li></ul>					
<b>Teaching</b>					
<ul style="list-style-type: none"><li>• Teaching assistant in numerous undergraduate courses, Dept. of Mathematics, University of Helsinki, 1975 – 1980</li><li>• Assistant, Dept. of Mathematics, University of Helsinki, 1981 – 1983</li><li>• Lecturer (applied mathematics), undergraduate courses in mathematics and statistics, Faculty of Agriculture and Forestry, University of Helsinki, 1984 – 1997</li><li>• Teacher (empirical research methodology and statistics), post-graduate courses, Faculty of Agriculture and Forestry, University of Helsinki, 1990-2000</li><li>• Teacher (biometry and empirical research methodology in ecology), post-graduate courses, Department of Ecology and Systematics, University of Helsinki, 1995-2000</li><li>• Teacher (biometry), licenciate seminar, Department of Ecology and Systematics, University of Helsinki, 1997</li><li>• Teacher (empirical research methodology and biometry), several short courses, including Dept. of Mathematics and Statistics, Univ. of Oulu, Dept. of Biology, Univ. of Turku, Faculty of Veterinary Medicine, Univ. of Helsinki, Forest Research Institute, Helsinki, Agricultural Research Institute, Jokioinen, Center for technical training AEL, Helsinki, Orion Diagnostica, Espoo, Biotechnology and Food Research, VTT, Helsinki, Finnish Environmental Research Institute (SYKE), Helsinki, Environmental Research Institute of Helsinki, Helsinki, Continuing Education Centre, Univ. of Jyväskylä, Dept. of Zoology, Univ. of Uppsala, Sweden, Faculty of Forestry, Univ. of Joensuu, Statistical methods in IVD-industry, Medipolis oy, Oulu, 1990-2000</li><li>• Lecturer: 1) Towards quantitative ecology and 2) Stochastic models in ecology – a case study in foraging theory. Both in the 8th International Summer School, Univ. of Jyväskylä, 1999</li><li>• Lecturer: "Empirical biodiversity research: some methodological aspects". FIBRE Seminar "Philosophical Window to Biodiversity", Helsinki 1999</li><li>• Supervisor (biometry and empirical research methodology), numerous undergraduate students, Faculty of Agriculture and Forestry, University of Helsinki, 1984 -</li><li>• Supervisor (guidance in biometry and empirical research methodology), PhD theses, (Faculty of Agriculture and Forestry, Univ. of Helsinki, unless otherwise stated) .Finished: 1994: <i>Marita Ruusula</i>; 1995: <i>Tiina Suuronen</i> (Univ. of Jyväskylä, Dept. of Biology); 1996: <i>Petri Papinaho</i>, <i>Eeva-Liisa Ryhänen</i>, <i>Marko Nieminen</i> (Dept. of Ecology and systematics); 1998: <i>Kari Leinonen</i>, <i>Matti Siren</i>; 1999: <i>Heikki Peltonen</i>, <i>Tomas Roslin</i> (Dept. of Ecology and Systematics); 2000: <i>Anu Väinölä</i>, <i>Päivi Kähkönen</i>, <i>Eeva-Stiina Tuittila</i> (Dept. of Ecology and Systematics), <i>Miska Luoto</i> (Univ. of Turku). Under preparation: <i>Leena Linden</i>, <i>Liisa Särkkä</i>.</li></ul>					
<b>Fields of research</b>					
<ul style="list-style-type: none"><li>• Realistic models in foraging behaviour (dept. of Ecology and Systematics, Univ. of Helsinki)</li><li>• Empirical research methodology (dept. of Forest Ecology, Univ. of Helsinki)</li></ul>					
<b>Referee</b>					
Annales Zoologici Fennici (4), Silva Fennica (2), Oikos (5), Agricultural and Food Science in Finland (1), Nature (1)					
<b>Visits</b>					
<ul style="list-style-type: none"><li>• Dept. of Zoology, University of Uppsala, Sweden, 2 weeks, November 1996 and March 1997</li><li>• Invited scientist, Swedish Museum of Natural History, Jan 2000, Jul 2000, Mar 2001</li></ul>					

### Presentations in Scientific Meetings

- 1st Sensometrics Meeting, Leiden, Netherlands, 1994
- Ecology seminar, Dept. of Ecology and Systematics, Univ. of Helsinki, 1997
- Meeting of Statistical Personnel in Agricultural Universities of Scandinavia and Baltia, Univ. of Lund, Sweden, 1998
- Foraging/98. International Conference on Foraging Behaviour, University of California at Santa Cruz, USA, 1998
- 1st International Conference on Mathematical Ecology, University of Alcalá, Spain, 1998
- EURECO '99, 8th European Ecological Congress, Halkidiki – Greece, 1999

### Scientific Meetings with mere presence

- 13th Nordic Conference in Mathematical Statistics, University of Odense, Denmark, 1990
- International Workshop on Greenhouse Crop Models, Swedish University of Agricultural Sciences, Alnarp, Sweden, 1995
- 2nd Sensometrics Meeting, Edinburgh, UK, 1996
- Conference on Project Work in University Teaching, University of Roskilde, Denmark, 1997

### Commendations

- Lecturer of the Year –award, Agricultural students union “Sampsa”, University of Helsinki, 1985
- Lecturer of the Year –award, Agricultural students union “Sampsa”, University of Helsinki, 1991

### Other

- Associate member of the Matriculation Examination Board (mathematics), yearly in 1984-92
- Partner of NINA (Nordic Informatics Network in the Agricultural Sciences) in Finland (1998-)
- Organizer of the NINA PhD-course “Design of data generation – experimental design” (to be held in Aug 2002)

### Publications in scientific journals with referee practice

- Peltonen J., J. Salopelto and **H. Rita** (1993): The optimal combination of HMW gluten subunits at gene loci *Glu-A1* and *Glu-B1* for bread-making quality in Scandinavian wheats. *Hereditas* 118: 71-78.
- Leinonen K., M. Nygren and **H. Rita** (1993): Temperature control of germination in the seeds of *Picea abies*. *Scandinavian Journal of Forest Research* 8: 107-117.
- **Rita H.** and E. Ranta (1993): On analysing species incidence. *Annales Zoologici Fennici* 30: 173-176.
- Määräinen E., **H. Rita**, E. Teperi and J. Valkonen (1994): Resistance to infection with *Spongospora subterranea* in tuber bearing and non-tuber bearing *Solanum* spp. *Potato Research* 37: 123-127.
- Peltonen J., **H. Rita**, R. Aikasalo and S. Home (1994): Analysis by SDS-PAGE electrophoresis and laser scanning densitometry of hordein effects on barley malting quality. *Hereditas* 120: 231 - 239.
- Ylimartimo A., E. Pääkkönen, T. Holopainen and **H. Rita** (1994): Unbalanced nutrient status and epicuticular wax of Scots pine needles. *Can J Forest Research* 24: 522 - 532.
- Kortemaa H., **H. Rita**, K. Haahtela and A. Smolander (1994): Root-colonizing ability of antagonistic *Streptomyces griseovirdis*. *Plant and Soil* 163: 77-83.
- Ranta E. and **H. Rita** (1994): Book review on Michael J. Crawley: GLIM for Ecologists. *Journal of Animal Ecology* 63: 742-3.
- Fogelholm M., M. Suominen and **H. Rita** (1994): Effects of low-dose iron supplementation in women with low serum ferritin concentration. *European Journal of Clinical Nutrition* 48: 753-756.
- Sandholm M., A. Vidovic, A. Puotunen-Reinert, S. Sankari, K. Nyholm and **H. Rita** (1995): D-Dimer improves the prognostic value of combined clinical and laboratory data in equine gastrointestinal colic. *Acta Vet Scand* 36: 255-272.
- Ranta E., **H. Rita** and N. Peuhkuri (1995): Patch exploitation, group foraging and unequal competitors. *Behavioral Ecology* 6: 1-5.
- Leinonen K. and **H. Rita** (1995): Interaction of prechilling, temperature, osmotic stress, and light in *Picea abies* seed germination. *Silva Fennica* 29: 95-106.
- Pietiläinen K., S. Virtanen, A. Rissanen, **H. Rita** and J. Mäenpää (1995): Diet, obesity and metabolic control in girls with insulin-dependent diabetes mellitus. *Archives of Disease in Childhood* 73: 398-402.
- **Rita H.** and E. Ranta (1995): Statistical inference of island occupancy: a reply. *Annales Zoologici Fennici* 32: 439-440.
- Lindén L., **H. Rita** and T. Suojala (1996): Logit models for estimating lethal temperatures in apple. *HortScience* 31: 000-000.
- Ranta E., N. Peuhkuri, A. Laurila, **H. Rita** and N. Metcalfe (1996): Producers, scroungers and foraging structure. *Animal Behaviour* 51: 171-175.
- Papinaho P., D. Fletcher and **H. Rita** (1996): Relationship of breast muscle deboning time to shear force, pH and color in broilers stunned by high electrical current. *Agricultural and Food Science in Finland* 5: 49-55.
- **Rita H.**, E. Ranta and N. Peuhkuri (1996): Competition in foraging groups. *Oikos* 76: 583-586.
- Vanhatalo V., K. Leinonen, **H. Rita** and M. Nygren (1996): Effect of pre-chilling on the dormancy of *Betula pendula* seeds. *Can J of Forest Research* 26: 1203-1208.
- Malkamäki U., M. Clark, **H. Rita**, E. Pehu and J. Valkonen (1996): Analyses of Solanaceous Species Using Repetitive Genomic DNA Sequences Isolated from *Solanum Brevidens*. *Plant Science* 117: 121-129.
- Tuomola E., **H. Rita**, P. Kuisma, S. Somersalo, E. Pehu, K. Jokinen and J. Valkonen (1996): Occurrence of common scab in potato tubers after foliar treatment with glycinebetaine under glasshouse conditions. *Agricultural and Food Science in Finland* 5: 601-608.
- Laurila E., L. Lähtenmäki, H. Tuorila and **H. Rita** (1996): Preference in Relation to Difference Threshold of NaCl in Mashed Potato. *Food Quality and Preference* 8: 000-000.
- Särkkä L. and **H. Rita** (1997): Significance of plant type and age, shoot characteristics and yield on the vase life of cut roses grown in winter. *Acta Agric Scand* 47: 118-123.
- **Rita H.**, E. Ranta and N. Peuhkuri (1997): Group foraging, patch exploitation time and the finders advantage. *Behav Ecol and Sociobiol* 40: 35-39.

- Peltonen H., **H. Rita** and J. Ruuhijärvi (1997): Diet and prey selection of pikeperch (*Stizostedion lucioperca* (L.)) in Lake Vesijärvi analysed with a logit model. *Annales Zoologici Fennici* 33: 481-487.
- Agboma P., G. Jones, P. Peltonen-Sainio, **H. Rita** and E. Pehu (1997): Exogenous glycinebetaine enhances grain yield of maize, sorghum and wheat grown under two supplementary watering regimes. *J. Agronomy & Crop Science* 178: 29-37.
- Salokorpi T., N. Sajaniemi, H. Hällback, A. Kari, **H. Rita** and L. Von Wendt (1997): Randomized study of the effect of antenaral dexamethasone on growth and development of premature children at the corrected age of 2 years. *Acta Paediatr.* 86: 294-8.
- **Rita H.** (1997): Gain - a Pivotal Constituent in Group Foraging. 155 p. Doctoral Thesis (University of Helsinki)
- **Rita H.** and E. Ranta (1997): A stochastic patch exploitation model. *Proc Roy B* 265: 309-315
- **Rita H.** and E. Ranta (1998): Competition in a group of equal foragers. *American Naturalist* 152: 71-81
- **Rita H.** and E. Ranta (1998): Group foraging, gain and the finder's advantage. *Oikos* 82: 515-521
- Tolonen A. and **H. Rita** (1998): Effect of *Diphyllobothrium ditremum* plerocercoid infection on gonadal weight in benthic whitefish *Coregonus lavaretus* (L.) in Lake Kilpisjärvi, Finnish Lapland. *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* 50: 249-256
- Salokorpi T., N. Sajaniemi, I. Rajantie, H. Hällback, T. Hämäläinen, **H. Rita** and L. von Wendt (1998): Neurodevelopment until the adjusted age of 2 years in extremely low birth weight infants after yearly intervention - a case-control study. *Pediatric Rehabilitation* 2: 157-163.
- Hirvonen H., E. Ranta, **H. Rita** and N. Peuhkuri (1999): Significance of memory properties in prey choice decisions. *Ecol. Model.* 115: 177-189
- Salokorpi T., I. Rajantie, J. Viitala, **H. Rita** and L. von Wendt (1999): Does perinatal hypoxemia play a role in the pathogenesis of cerebral palsy? *Acta Paediatr* 88: 571-5
- Särkkä L. and **H. Rita** (1999): Yield and quality of cut roses produced by pruning or by bending down shoots. *Gartenbauwissenschaft* 64 (4) 173-176
- Kallio-Nyberg I., H. Peltonen and **H. Rita** (1999): Effects of stock-specific and environmental factors on the feeding migration of Atlantic salmon (*Salmo salar*) in the Baltic sea. *Can J Fish Aquat Sci.* 56: 853-861
- **Rita H.** and E. Ranta (1999): Continuous flow and interference models in resource use: a clarification. *Anim. Behav.* 57: pF17-F18 (ID anbe.1998.1090)
- **Rita H.** and E. Ranta (1999): An individual's gain in a foraging group. *Annales Zoologici Fennici* 36: 129-138
- Väinölä A., O. Junttila and **H. Rita** (1999): Cold hardiness of Rhododendron cultivars grown in different photoperiods and temperatures. *Physiologia Plantarum* 107: 46-53
- Nieminen M., **H. Rita** and P. Uuvana (1999): Body size and migration rate in moths. *Ecography* 22: 697-707
- Tuittila E.-S., **H. Rita**, H. Vasander and J. Laine (1999): Vegetation patterns around *Eriophorum vaginatum* L. tussocks in a cut-away peatland in southern Finland. *Canadian Journal of Botany* 78: 47-58
- Tolonen, A., **H. Rita** and H. Peltonen and (2000): Abundance and distribution of *Diphyllobothrium ditremum* Creplin (Cestoda: Pseudophyllidea) plerocercoids in benthic whitefish *Coregonus lavaretus* (L.) in northern Finnish Lapland. *J. Fish Biol* 57: 15-28

#### In press:

- Lehtonen J. T., O. Mustonen, H. Ramiarjanahary, J. Niemelä and **H. Rita** (2001): Habitat use by endemic and introduced rodents along a gradient of forest disturbance in Madagascar. *Biodiversity and Conservation* XX: xxx-xxx
- Luoto M., M. Kuussaari and **H. Rita** (2001): Determinants of distribution and abundance in the clouded apollo butterfly: a landscape ecological approach. *Ecography* 2X: XXX-XXX
- Tolonen, A., M. Paalavuo, P. Muje and **H. Rita** (2001): Energy density and fecundity in subarctic whitefish (*Coregonus lavaretus* (L.)) infected by *Diphyllobothrium ditremum* plerocercoids. *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.*
- Kilpi M., M. Öst, K. Lindström and **H. Rita** (2001): Female characteristics and parental care mode in the creching system of eiders, *Somateria mollissima*. *Animal Behaviour*

#### Submitted

- Särkkä L., **H. Rita** and S. Ripatti (2001): Cut rose flower longevity and its variation between plants of cv. Frisco grown in different lighting periods.
- Lehvavirta S and **H. Rita** (2001): Natural regeneration of trees in urban medium-fertile (*Myrtillus*-type) woodlands.

#### Other publications

- Tuomivaara T., P. Hari, **H. Rita** and R. Häkkinen (1994): Guide-Dog approach: a quantitative methodology for ecology. Helsingin yliopiston metsätieteiden laitoksen julkaisuja 11. 92 pages.
- Harmonisering av test- og kontrollmetoder i nordisk produksjon av sertifiserte settepoteter. (1998) (Harmonization of testing and controlling methods of seed potato certification in the Nordic countries.), Nordisk Ministerråd, TemaNord

#### Textbooks

- Esa Ranta, Hannu **Rita** ja Jari Kouki: Biometria - Tilastotiedettä ekologeille. 569 s. Yliopistopaino, Helsinki 1989 (6. painos 1996)
- Hannu **Rita**: Tilastollisia näkökohtia. Sivut 113-124 kirjassa Hely Tuorila ja Ulla Hellemann (toim.): Elintarvikkeet aistien puntarissa. Yliopistopaino Helsinki 1993.
- Jari Kouki, Esa Ranta ja Hannu **Rita**: Biometrinen aineistojen analysointi SAS-ohjelmistolla. Metsänhoitotieteen laitoksen tiedontantoja 66. 1990.

#### Manuscripts

- **Rita H.** ja E. Ranta: Kadonnutta rakenne tta etsimässä. Tilastollisia malleja frekvenssiaineistojen analysointiin. Käsikirjoitus.