

## **Maria Groot, PhD**

**Institution:** Wageningen Food Safety & Research  
Wageningen University



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### **Education**

1978-1985 Utrecht University, graduated as veterinarian, DVM  
1992 Utrecht University, PhD (Histological screening for illegal growth promoting agents in veal calves)  
2002 SWMBO, registration as biomedical specialist (section experimental pathobiology)  
2018 Registration as animal welfare officer, art. 9

### **Employment:**

1992-present: Senior scientist, Wageningen Food Safety & Research (former RIKILT), part of Wageningen University & Research.  
1989-1992 Junior scientist histopathology for hormone research RIKILT-DLO  
1997-1989 Junior scientist histopathology for hormone research, National Food Safety Authority (NVWA)  
1986-1987 Junior scientist biotechnology and genetic manipulation at the Zootechnical Department of the Faculty of Veterinary Medicine University of Utrecht

### **Working field:**

Illegal use of hormones in production animals, antibiotics, contaminants, quality of meat and meat products, phytotherapy and the use of herbs as alternatives for antibiotics, animal experiments, animal health, gene doping, prohormones, nanotechnology, etc.  
Organization and design of animal experiments.

## **Memberships**

- Society for Medicinal Plant and Natural Product Research (GA), Animal Health Network
- Netherlands Association for Phytotherapy (NVF)
- Chair of the study group Animals and Herbs from the NVF

## **Related projects**

- 1999- 2002 BIOHERB: growing herbs, extraction methods, chemical analysis and product development
- 2006- 2009 Fyto-V: phytotherapy for organic farmers, available products, animal studies, legislation, knowledge sharing
- 2009 - present Naturally healthy: Guides for farmers and veterinarians for natural treatments of farm animals (dairy cows, pigs, veal calves, poultry, turkeys, rabbits, dairy goats and sheep)
- 2011 – present Quality and Safety of herbal products in production animals
- 2017-2020 “Healthy Cows – Healthy Food – Healthy Environment: Enhancing safety and quality of milk in Ethiopia with a focus on antibiotic residues”
- 2020 – present Nature based solutions using herbs for dairy cattle in India and herbal pastures in the Netherlands
- 2021 - present Knowledge transfer: possibilities of natural products for animal health care to agricultural and veterinary education

## **References (Selection)**

- Groot, M.J., Berendsen, B.J.A., Cleton, N.B. The Next Step to Further Decrease Veterinary Antibiotic Applications: Phytogetic Alternatives and Effective Monitoring; the Dutch Approach. *Frontiers in Veterinary Science*, 2021, 8, 709750
- Muizelaar, W., Groot, M., van Duinkerken, G., Peters, R., Dijkstra, J. Safety and transfer study: Transfer of bromoform present in *Asparagopsis taxiformis* to milk and urine of lactating dairy cows. *Foods*, 2021, 10(3), 584
- Alasbahi, R.H., Groot, M.J. 2021. Ethnoveterinary Uses of Certain Yemeni Plants: A Review of the Scientific Evidence. *Planta Medica*, October 2021
- van't Hooft, K.E., Groot, M.J., Gebru, G. Natural Livestock Farming: Piloting a Strategy to Improve Milk Quality

and Reduce Anti-Microbial Resistance. *Appro Poult Dairy & Vet Sci.* 1(3). APDV.000514. 2017.

Alasbahi, R. and M.J. Groot. Evaluation of the wound healing activity of twelve herbal and non-herbal remedies used in Sana'a-Yemen for the treatment of wounds and burns. (Ms. No. 6379) has been accepted for publication in the *Journal of Medicinal Herbs and Ethnomedicine*.

Groot, M.J. and K.E. van 't Hooft. The hidden effects of dairy farming on public and environmental health in the Netherlands, India, Ethiopia, and Uganda, considering the use of antibiotics and other agrochemicals. *Frontiers in Public Health*, section Environmental Health. 2016 Feb 24;4:12. doi: 10.3389/fpubh.2016.00012.

Mulder, P.P.J., de Witte, S.L., Stoopen, G.M., Groot, M.J., Hoogenboom, R.L.A.P. Transfer of pyrrolizidine alkaloids from various herbs to eggs and meat in laying hens. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, 2016, 33(12), pp. 1826–1839

Van Raamsdonk, L.W.D., Ozinga, W.A., Hoogenboom, L.A.P., Mol J.G.J, Groot M.J., Van Der Fels-Klerx, H.J., De Nijs, M. Exposure assessment of cattle via roughages to plants producing compounds of concern. *Food Chemistry*, 2015, 189, pp. 27–37, 17149

<https://www.wur.nl/en/article/Herbs-for-dairy.htm>

<https://knowledge4food.net/research-project/arf3-ethiopia-milk/>

<https://www.wur.nl/en/research-results/research-institutes/food-safety-research.htm>