

# CURRICULUM VITAE

## GENERAL INFORMATION

Name : dr.ir. Harrie Koenraadt  
Address : Jan Paetsplein 15, 2332 PK Leiden, the Netherlands  
Phone : +31 (0)71 33 26 234  
Fax : +31 (0)71 33 26 363  
E-mail : h.koenraadt@naktuinbouw.nl  
Day of birth : December 31, 1960  
Nationality : Dutch

## EMPLOYMENT EXPERIENCE AND EXPERTISE

- Since 1993** Naktuinbouw, Sotaweg 25, P.O. Box 40, 2370 AA Roelofarendsveen, The Netherlands. Research Scientist:
- Development of seed health tests for the detection of viruses, bacteria, and fungi
  - Technical support of seed companies
  - Teaching of national and international seed health courses and workshops.
    - Workshop for the detection of PepMV and *Clavibacter michiganensis* subsp. *michiganensis* (Cmm) in China
    - Workshop for detection of seed-borne bacteria of tomato in Turkey (Cmm, *Pseudomonas syringae* pv. *tomato* and "*Xanthomonas campestris* pv. *vesicatoria*")
    - Workshop for the detection of Cmm on seeds in France
    - Four courses in Seed Health, Seed Technology, Resistance Assays and ELISA in Netherlands
  - Support of routine laboratories (seed health, seed analysis, and resistance assays)
  - Support of NAL (Naktuinbouw Authorised Laboratories): Audits, protocol evaluation and organisation of proficiency tests
  - Diagnostics of diseases of vegetables
  - ISHI (International Seed Health Initiative)
- 1992-1993** Syngenta, Westeinde 62, 1600 AA Enkhuizen, the Netherlands. Research Scientist:
- Seed health quality control (fungal, bacterial, and viral pathogens).
  - Improvement and maintenance of identification and detection methods such as ELISA, PCR, and bioassays.
- 1988-1992** Michigan State University, Department of Botany and Plant Pathology, East Lansing, MI 48824, USA. Ph.D. project: "Characterization of the beta-tubulin gene from benomyl-resistant and benomyl-sensitive field strains of *Venturia inaequalis*".

**1979-1987**      Agricultural University Wageningen, the Netherlands. Agricultural engineer. Specialisation: Phytopathology and Virology.

## **PUBLICATIONS**

Shabi, E., Koenraadt, H.M.S., and Katan, T. 1986. Further studies on the inheritance of benomyl-resistance in *Venturia pirina* isolated from pear orchards in Israel. *Plant Pathol.* 35: 310-313.

Shabi, E., Koenraadt, H.M.S., and Dekker, J. 1987. Negatively correlated cross-resistance to phenylcarbamate fungicides in benomyl-resistant *Venturia inaequalis* and *V. pirina*. *Neth. J. Pl. Pathol.* 93: 33-41.

Koenraadt, H.M.S., Somerville, S.C., and Jones, A.L. 1989. Cloning of the beta-tubulin gene from benomyl-sensitive and benomyl-resistant field strains of *Venturia inaequalis*. *Phytopathology* 79: 153-154 (Abstract).

Koenraadt, H., Somerville, S.C., and Jones, A.L. 1990. Molecular characterization of the beta-tubulin gene from benomyl-sensitive and benomyl-resistant field strains of *Venturia inaequalis*. *Phytopathology* 80: 994 (Abstract).

Koenraadt, H., Somerville, S.C., and Jones, A.L. 1991. Use of allele-specific oligonucleotide probes to characterize resistance to benomyl field strains of *Venturia inaequalis*. *Phytopathology* 81: 1156 (Abstract).

Koenraadt, H.M.S. and Jones, A.L. 1992. Demonstration that mutations in codons 198 and 200 of the beta-tubulin gene confer resistance to benomyl in fungi. *Phytopathology* 82: 1065 (Abstract).

Koenraadt, H.M.S., Somerville, S.C., and Jones, A.L. 1992. Characterization of mutations in the beta-tubulin gene of benomyl-resistant field strains of *Venturia inaequalis* and other plant pathogenic fungi. *Phytopathology* 82: 1348-1354.

Koenraadt, H.M.S. and Jones, A.L. 1992. The use of allele-specific oligonucleotide probes to characterize resistance to benomyl in field strains of *Venturia inaequalis*. *Phytopathology* 82: 1354-1358.

Koenraadt, H.M.S. and Jones, A.L. 1993. Resistance to benomyl conferred by mutations in codon 198 or 200 of the beta-tubulin gene of *Neurospora crassa* and sensitivity to diethofencarb conferred by codon 198. *Phytopathology* 83: 850-854.

Koenraadt, H.M.S. and Jones, A.L. 1994. Allele-specific oligonucleotides and their use in characterization of resistance to benomyl in *Venturia inaequalis*. In: Schots, A., Dewey, F.M., and Oliver, R. (eds.) *Modern assays for plant pathogenic fungi: Identification, detection and quantification*. CAB International, pp. 239-245.

Koenraadt, H.M.S., Zweekhorst, C., and Van Vuurde, J.W.L. 1997. Detection of *Pseudomonas syringae* p.v. *phaseolicola* and *Xanthomonas campestris* pv.

*phaseoli* on seeds of bean by immunofluorescence colony staining.  
Phytopathology 87: S53 (Abstract).

Koenraadt, H.M.S. 1997. Comparative test for the detection of *Xanthomonas campestris* pv. *campestris* in crucifer seeds. In: Hutchins, J.D. and Reeves, J.C. (eds.). Seed health testing. Progress towards the 21st century. CAB International, pp. 205-209.

Van der Vlugt, R.A.A., Berendsen, M., and Koenraadt, H.M.S., 1997. Immunocapture reverse transcriptase PCR for the detection of lettuce mosaic virus. In: Hutchins, J.D. and Reeves, J.C. (eds.). Seed health testing. Progress towards the 21st century. CAB International, pp. 185-191.

N. N. A. Tjou-Tam-Sin, J. L. J. van de Bilt, M. Bergsma-Vlami, H. Koenraadt, J. Westerhof, J. van Doorn, K. T. K. Pham and W. S. Martin. First Report of *Xanthomonas arboricola* pv. *pruni* in Ornamental *Prunus laurocerasus* in the Netherlands. <https://doi.org/10.1094/PDIS-04-11-0265-PDN>

Koenraadt, H., van Betteray, B., Germain, R., Hiddink, G., Jones, J. B., Oosterhof, J., et al. (2009). Development of specific primers for the molecular detection of bacterial spot of pepper and tomato. *Acta Horticulturae*, 808, 99–102.

L. van Overbeek, E. Nijhuis, H. Koenraadt, J. Visser and Gijs van Kruistum. 2010. The role of crop waste and soil in *Pseudomonas syringae* pathovar *porri* infection of leek (*Allium porrum*). Appl. Soil Ecol. Vol.46, Issue 3, November 2010, Pages 457-463

Bergsma-Vlami, W. Martin, H. Koenraadt, H. Teunissen, J.F. Pothier, B. Duffy and J. van Doorn. 2012 Molecular typing of Dutch isolates of *Xanthomonas arboricola* pv *pruni* isolated from ornamental cherry laurel. JPI Pathol (2012), 94 (1, Supplement), S1.29-S1.35

Bakker D, Bruinsma M, Dekter RW, Toonen MAJ, Verhoeven JThJ, Koenraadt HMS (2015) Detection of PSTVd and TCDVd in seeds of tomato using real-time RT-PCR. Bull OEPP/EPPO Bull 45(1):14–21

Verhoeven, J.T.J., Koenraadt, H.M.S., Westenberg, M. *et al.* Characterization of tomato apical stunt viroid isolated from a 24-year old seed lot of *Capsicum annuum*. *Arch Virol* 162, 1741–1744 (2017). <https://doi.org/10.1007/s00705-017-3277-5>

H. Koenraadt, D. L. Hailstones, A. Ignatov and N. W. Schaad, 2019 Chapter 23: Detection of *Xanthomonas campestris* pv. *campestris* in Crucifer Seeds. In Detection of Plant-Pathogenic Bacteria in Seed and Other Planting Material, Second Edition ISBN:978-0-89054-541-6

Verhoeven, J.T.J., Koenraadt, H.M.S., Jodlowska, A. *et al.* Pospiviroid infections in *Capsicum annuum*: disease symptoms and lack of seed

transmission. *Eur J Plant Pathol* **156**, 21–29 (2020).  
<https://doi.org/10.1007/s10658-019-01849-1>

M. Botermans, J. Roenhorst, M. Hooftman, J. Verhoeven, E. Metz, E. van Veen, B. Geraats, M. Kemper, D. Beugelsdijk, H. Koenraadt, A. Jodlowska, M. Westenberg. 2020. Development and validation of a real-time RTPCR test for screening pepper and tomato seed lots for the presence of pospiviroids. *PLoS ONE* 15(9): e0232502.

Real-time tracking of Tomato brown rugose fruit virus (ToBRFV) outbreaks in the Netherlands using Nextstrain. 2020. B. van de Vossenberg, M. Visser, M. Bruinsma, H. Koenraadt, M. Westenberg, M. Botermans  
<https://doi.org/10.1101/2020.06.02.129395>

## **SOCIETIES**

American Phytopathological Society  
Royal Dutch Phytopathological Society

## **LANGUAGES**

Dutch and English; proficiently  
German and French; moderately