

7 LITERATURVERZEICHNIS

- AHUJA, I., BHASKAR, P. B., BANGA & S. K., BANGA, S. S. 2003: Synthesis and cytogenetic characterization of intergeneric hybrids of *Diplotaxis siifolia* with *Brassica rapa* and *B. juncea*. *Plant Breeding* **122**, 447-449.
- ALVAREZ, M. E., PENNELL, R. I., MEIJER, P.-J., ISHIKAWA, A., DIXON, R. A. & LAMB, C. J. 1998: Reactive oxygen intermediates mediate a systemic signal network in the establishment of plant immunity. *Cell* **92**, 773-784.
- AMELUNG, D., SCHULZ, R.-R. & DAEBLER, F. 1996: Einfluß der Fruchtfolge auf Rapskrankheiten. *Raps* **14**, 52-55.
- ANDERSEN, I., BECKER, W., SCHLUTER, K., BURGES, J., PARTHIER, B. & APEL, K. 1992: The identification of leaf thionin as one of the main jasmonate-induced proteins of barley (*Hordeum vulgare*). *Plant Mol. Biol.* **19**, 193-204.
- ANDREASSON, E., WRETLBLAD, S., GRANÉR, G., WU, X., ZHANG, J., DIXELIUS, C., RASK, L. & MEIJER, J. 2001: The myrosinase-glucosinolate system in the interaction between *Leptosphaeria maculans* and *Brassica napus*. *Mol. Plant Pathol.* **2**, 281-286.
- ANONYMUS 2000: Kompendium Gentechnologie und Lebensmittel. Herausgeber Aventis Crop Science Deutschland GmbH, Bund für Lebensmittelrecht und Lebensmittelkunde e.V., Monsanto Agrar Deutschland GmbH, Novartis Seeds GmbH, 3. Auflage. Warlich Druck und Verlagsgesellschaft mbH, Meckenheim, pp 77-81.
- The *Arabidopsis* Genome Initiative 2000: Analysis of the genome sequence of the flowering plant *Arabidopsis thaliana*. *Nature* **408**, 796-815.
- ARMSTRONG, K. C. & KELLER, W. A. 1981: Chromosome pairing in haploids of *Brassica campestris*. *Theor. Appl. Genet.* **59**, 49-52.
- ARMSTRONG, K. C. & KELLER, W. A. 1982: Chromosome pairing in haploids of *Brassica oleracea*. *Can. J. Genet. Cytol.* **24**, 735-739.
- ASAI T., TENA G., PLOTNIKOVA J., WILLMANN M. R., CHIU W. L., GOMEZ-GOMEZ L., BOLLER T., AUSUBEL F. M. & SHEEN J. 2002: MAP kinase signalling cascade in *Arabidopsis* innate immunity. *Nature* **415**, 977-83.
- ATKINSON, R. G. 1950: Studies on the parasitism and variation of *Alternaria raphani*. *Can. J. Res., Sect. C* **28**, 288-317.
- ATKINSON, M. M., MIDLAND, S. L., SIMS, J. J. & KEEN, N. T. 1996: Syringolide 1 triggers Ca^{2+} influx, K^+ efflux, and extracellular alkalinization in soybean cells carrying the disease resistance gene Rpg4. *Plant Physiol.* **112**, 297-302.
- ATTIA, T. & RÖBBELEN, G. 1986: Meiotic pairing in haploids and amphihaploids of spontaneous versus synthetic origin in rape, *Brassica napus* L. *Can. J. Genet. Cytol.* **28**, 330-334.
- AUSTIN, M. J., MUSKETT, P., KAHN, K., FEYS, B. J., JONES, J. D. & PARKER, J. E. 2002: Regulatory role of SGT1 in early R gene-mediated plant defenses. *Science* **295**, 2077-2080.
- AZEVEDO, C., SADANANDOM, A., KITAGAWA, K., FREIALDENHOVEN, A., SHIRASU, K. & SCHULZE-LEFERT, P. 2002: The RAR1 interactor SGT1, an essential component of R gene-triggered disease resistance. *Science* **295**, 2073-2076.
- BACH, M., SCHNITZLER, J. P. & SEITZ, H. U. 1993: Elicitor-induced changes in Ca^{2+} influx, K^+ efflux, and 4-hydroxybenzoic acid synthesis in protoplasts of *Daucus carota* L. *Plant Physiol.* **103**, 407-412.

- BABADOOST, M. & GABRIELSON, R. L. 1979: Pathogens causing *Alternaria* diseases of *Brassica* seed crops in western Washington. *Plant Dis. Rep.* **63**, 815-820.
- BAEZ-MAYOR, A. 1934: Estudio cariológico de algunas crucíferas y su interpretación en la sistemática. *Cavanillesia* **6**, 59-103.
- BANCROFT, I. 2001: Duplicate and diverge: the evolution of plant genome microstructure. *Trends Genet.* **17**, 89-93.
- BANGA, S. S., LABANA, K. S. & MEDHI, B. N. 1984: *Alternaria* incidence in some alloplasmic lines of Indian mustard (*Brassica juncea* (L.) Coss.). *Theor. Appl. Genet.* **67**, 195-196.
- BANGA, S. S., BHASKAR, P. B. & AHUJA, I. 2003: Synthesis of intergeneric hybrids and establishment of genomic affinity between *Diploptaxis catholica* and crop *Brassica* species. *Theor. Appl. Genet.* **106**, 1244-1247.
- BAINS, P. S. & TEWARI, J. P. 1987: Purification, chemical characterization and host-specificity of the toxin produced by *Alternaria brassicae*. *Physiol. Mol. Plant Pathol.* **30**, 259-271.
- BENT, A. F. 1996: Plant disease resistance genes: function meets structure. *Plant Cell* **8**, 1757-1771.
- BERTO, P., BELINGHERI, L. & DEHORTER, B. 1997: Production and purification of a novel extracellular lipase from *Alternaria brassicicola*. *Biotechnol. Lett.* **19**, 533-536.
- BERTO, P., COMMÉNIL, P., BELINGHERI, L. & DEHORTER, B. 1999: Occurrence of a lipase in spores of *Alternaria brassicicola* with a crucial role in the infection of cauliflower leaves. *FEMS Microbiol. Lett.* **180**, 183-189.
- BERTOLI, I. C. 1967: Ricerche sulla cariologia di alcuni generi di *Cruciferae* della sezione *Brassicinae*. *Atti Mem. Reale Accad. Sci. Lett. Arti, Modena. Ser.* **69**, 41-46.
- BIJRAL, J. S., SHARMA, T. R., GUPTA, B. B. & SINGH, K. 1995: Interspecific hybrids of *Brassica maurorum* with *Brassica* crops, and their cytology. *Cruciferae Newslett. Eucarpia* **17**, 18-19.
- BIJRAL, J. S. & SHARMA, T. R. 1996: Intergeneric hybridization between *Brassica napus* and *Diploptaxis muralis*. *Cruciferae Newslett. Eucarpia* **18**, 10-11.
- BIJRAL, J. S. & SHARMA, T. R. 1998: Production and cytology of intergeneric hybridization between *Brassica napus* and *Diploptaxis catholica*. *Cruciferae Newslett. Eucarpia* **20**, 15.
- BOCK, C. H., THRALL, P. H., BRUBAKER, C. L. & BURDON, J. J. 2002: Detection of genetic variation in *Alternaria brassicicola* using AFLP fingerprinting. *Mycol. Res.* **106**, 428-434.
- BODNARYK, R. P., & LAMB, R. J. 1991: Mechanisms of resistance to flea beetle, *Phyllotreta cruciferae* (Goeze), in mustard seedlings, *Sinapis alba* L. *Can. J. Plant Sci.* **71**, 13-20.
- BOHMAN, S. 2001: Molecular studies of *Arabidopsis* and *Brassica* with focus on resistance to *Leptosphaeria maculans*. Doctoral diss. Dept. of Plant Biology, SLU. *Acta Universitatis agriculturae Sueciae, Agraria* vol. 305.
- BOHMAN, S., STAAL, J., THOMMA, B. P., WANG, M. & DIXELIUS, C. 2004: Characterisation of an *Arabidopsis-Leptosphaeria maculans* pathosystem: resistance partially requires camalexin biosynthesis and is independent of salicylic acid, ethylene and jasmonic acid signalling. *Plant J.* **37**, 9-20.
- BOHMAN, S., WANG, M. & DIXELIUS, C. 2002: *Arabidopsis thaliana* derived resistance against *Leptosphaeria maculans* in a *Brassica napus* genomic background. *Theor. Appl. Genet.* **105**, 498-504.

- BONAS, U. & LAHAYE, T. 2002: Plant disease resistance triggered by pathogen-derived molecules: refined models of specific recognition. *Curr. Opin. Microbiol.* **5**, 44-50.
- BOSTOCK, R. M., LAINE, R. A. & KUC, J. A. 1982: Factors affecting the elicitation of sesquiterpenoid phytoalexin accumulation by eicosapentanoic and arachidonic acids in potato. *Plant Physiol.* **70**, 1417-1424.
- BRADLEY, D. J., KJELLBOM, P. & LAMB, C. J. 1992: Elicitor- and wound-induced oxidative cross-linking of a proline rich plant cell wall protein: A novel, rapid defense response. *Cell* **70**, 21-30.
- BRANDES, A., JUNG, C. & WRICKE, G. 1987: Nematode resistance derived from wild beets and its meiotic stability in sugar beet. *Plant Breeding* **99**, 56-64.
- BRAZAUSKIENE, I. & PETRAITIENE, E. 2004: Effects of fungicide application timing on the incidence and severity of *Alternaria* blight (*Alternaria brassicae*) and on the productivity of spring oilseed rape (*Brassica napus* L. ssp. *oleifera annua* Metzg.). *Agr. Res.* **2**, 121-133.
- BRISSON, L. F., TENHAKEN, R. & LAMB, C. 1994: Function of oxidative cross-linking of cell wall structural proteins in plant disease resistance. *Plant Cell* **6**, 1703-1712.
- BROEKERT, W. F., VAN PARIJS, J., LEYNS, F., JOOS, H. & PEUMANS, W. J. 1989: A chitin-binding lectin from stinging nettle rhizomes with antifungal properties. *Science* **245**, 1100-1102.
- BROWN, J., BROWN, A. P., DAVIS, J. B. & ERICKSON, D. 1997: Intergeneric hybridization between *Sinapis alba* and *Brassica napus*. *Euphytica* **93**, 163-168.
- BROWNE, L. M., CONN, K. L., AYER, W. A. & TEWARI, J. P. 1991: The camalexins-new phytoalexins produced in the leaves of *Camelina sativa* (Cruciferae). *Tetrahedron* **47**, 3909-3914.
- BRUEGEMAN, R., ROSTOKS, N., KUDRNA, D., KILIAN, A., HAN, F., CHEN, J., DRUKA, A., STEFFENSON, B. & KLEINHOFS, A. 2002: The barley stem rust-resistance gene Rpg1 is a novel disease-resistance gene with homology to receptor kinases. *Proc. Natl. Acad. Sci. USA* **99**, 9328-9333.
- BRUN, H., PLESSIS, J. & RENARD, M. 1987: Resistance of some crucifers to *Alternaria brassicae* (Berk.) Sacc. Proc. 7th Int. Rapeseed Conf., Poznan **5**, 1222-1227.
- BUCHTER, R., STROMBERG, A., SCHMELZER, E. & KOMBRINK, E. 1997: Primary structure and expression of acidic (class II) chitinase in potato. *Plant Mol. Biol.* **35**, 749-761.
- CARDOZA, V. & STEWART, C. N. 2003: Increased *Agrobacterium*-mediated transformation and rooting efficiencies in canola (*Brassica napus* L.) from hypocotyl segment explants. *Plant Cell Reports* **21**, 599-604.
- CARRUTHERS, S. P. 1995: Potential developments and marketsize limitations for new oilseedrape opportunities. In: GCIRC (Ed.). Proc. 9th Int. Rapeseed Congress, Cambridge, U.K., pp. 1327-1331, Henry Ling Limited, Dorchester, U.K.
- CAVELL, A., LYDIATE, D., PARKIN, I., DEAN, C. & TRICK, M. A. 1998: A 30 centimorgan segment of *Arabidopsis thaliana* chromosome 4 has six collinear homologues within the *Brassica napus* genome. *Genome* **41**, 62-69.
- CHADOEUF, R., DARMENCY, H., MAILLET, J. & RENARD, M. 1998: Survival of buried seeds of interspecific hybrids between oilseed rape, hoary mustard and wild radish. *Field Crop Res.* **58**, 197-204.
- CHANG, C., KWOK, S. F., BLEECKER, A. B. & MEYEROWITZ, E. M. 1993: *Arabidopsis* ethylene-response gene *etr1*: similarity of product to two-component regulators. *Science* **262**, 539-544.

- CHEN, C. Y. & SEGUIN-SWARTZ, G. 1999: Reaction of wild crucifers to *Leptosphaeria maculans*, the causal agent of blackleg of crucifers. Can. J. Pl. Path. **21**, 361-367.
- CHEN, C. L., GUO, W. W., YI, H. L. & DENG, X. X. 2004: Cytogenetic analysis of two interspecific Citrus allotetraploid somatic hybrids and their diploid fusion parents. Plant Breeding. **123**, 332-337.
- CHÈVRE, A. M., BARRET, P., EBER, F., DUPUY, P., BRUN, H., TANGUY, X. & RENARD, M. 1997: Selection of stable *Brassica napus-B. juncea* recombinant lines resistant to blackleg (*Leptosphaeria maculans*). 1. Identification of molecular markers, chromosomal and genomic origin of the introgression. Theor. Appl. Genet. **95**, 1104-1111.
- CHÈVRE, A. M., EBER, F., BRUN, H., PLESSIS, J., PRIMARD, C. & RENARD, M. 1991: Cytogenetic studies of *Brassica napus-Sinapis alba* hybrids from ovary culture and protoplast fusion. Attempts to introduce *Alternaria* resistance into rapeseed. Proc. 8th Int. Rapeseed Conf., Saskatoon, Vol. **2**, 346-351.
- CHÈVRE, A. M., EBER, F., MARGALE, E., KERLAN, M. C., PRIMARD, C., VEDEL, F., DELSENY, M. & PELLETIER, G. 1994b: Comparison of somatic and sexual *Brassica napus-Sinapis alba* hybrids and their progeny by cytogenetic studies and molecular characterization. Genome **37**, 367-374.
- CHÈVRE, A. M., EBER, F., QUIROS, C.F. & DELOURME, R. 1994a: Creation and characterization of *Brassica napus - Diplotaxis erucoides* addition lines. Cruciferae Newslett. Eucarpia **16**, 28-29.
- CHÈVRE, A. M., EBER, F., THIS, P., BARRET, P., TANGUY, X., BRUN, H., DELSENY, M. & RENARD, M. 1996: Characterization of *Brassica nigra* chromosomes and of blackleg resistance in *B. napus-B. nigra* addition lines. Plant Breeding **115**, 113-118.
- CHOUDHARY, B. R. & JOSHI, P. 1999: Interspecific hybridization in *Brassica*. Proc. 10th Int. Rapeseed Congress, Canberra, Australia.
- CHRUNGU, B., VERMA, N., MOHANTY, A., PRADHAN, A. & SHIVANNA, K. R. 1999: Production and characterization of interspecific hybrids between *Brassica maurorum* and crop *Brassicaceas*. Theor. Appl. Genet. **98**, 608-613.
- COHN, J., SESSA, G. & MARTIN, G. B. 2001: Innate immunity in plants. Curr. Opin. Immunol. **13**, 55-62.
- CONN, K. L. & TEWARI, J.P., 1986: Hypersensitive reaction induced by *Alternaria brassicae* in *Eruca sativa*, an oil-yielding crucifer. Can. J. Plant. Pathol. **8**, 348.
- CONN, K. L., TEWARI, J. P. & DAHIYA, J. S. 1988: Resistance to *Alternaria brassicae* and phytoalexins-elicitation in rapeseed and other crucifers. Plant Sci. **56**, 21-25.
- CONN, K. L. & TEWARI, J. P. 1989: Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola. Mycol. Res. **93**, 240-242.
- CONNER, J. A., CONNER, P., NASRALLAH, P. E. & NASRALLAH, J. B. 1998: Comparative mapping of the *Brassica* S locus region and its homeolog in *Arabidopsis*: implications for the evolution of mating systems in the *Brassicaceae*. Plant Cell **10**, 801-812.
- COOKE, D. E. L., FORSTER, J. W., JENKINS, P. D., JONES, D. G. & LEWIS, D. M. 1998: Analysis of intraspecific and interspecific variation in the genus *Alternaria* by the use of RAPD-PCR. Ann. Appl. Biol. **132**, 197-209.
- DAEBELER, F., AMELUNG, D. & RIEDEL, V. 1986: Untersuchungen über die Schadwirkung der durch *Alternaria* spp. verursachten Rapsschwärze im Winterraps. Wissenschaftliche Zeitschrift der Wilhelm-Pieck-Universität Rostock, Naturwissenschaftliche Reihe **35**, 52-54.

- DAEBELER, F. & SEIDEL, D. 1989: Auftreten und Bedeutung pilzlicher Schaderreger des Winterrapses im Norden der Deutschen Demokratischen Republik. Zeszyty problemowe Postepow nauk rolniczych **374**, 433-437.
- DANGL, J. L., DIETRICH, R. A. & RICHLBERG, M. H. 1996: Death don't have no mercy: Cell death programs in plant-microbe interactions. *Plant Cell* **8**, 1793-1807.
- DANGL, J. L. & JONES, J. D. G. 2001: Plant pathogens and integrated defence responses to infection. *Nature* **411**, 826-833.
- DEGENHARDT, K. J., PETRIE, G. A. & MORRALL, R. A. A. 1982: Effects of temperature on spore germination and infection of rapeseed by *Alternaria brassicae*, *A. brassicicola*, and *A. raphani*. *Can. J. Plant Pathol.* **4**, 115-118.
- DE JONG, J. H., SPECKMANN, G. J., DE BOCK, T. S. M., LANGE, W. & VAN VOORST, A. 1986: Alien chromosome fragments conditioning resistance to beet cyst nematode in diploid descendants from monosomic additions of *Beta procumbens* to *Beta vulgaris*. *Can. J. Genet. Cytol.* **28**, 439-443.
- DELANEY, T. P., UKNES, S., VERNOOIJ, B., FRIEDRICH, L., WEYMANN, K., NEGROTTI, D., GAFFNEY, T., GUT-RELLA, M., KESSMANN, H., WARD, E., & RYALS, J. 1994: A central role of salicylic acid in plant disease resistance. *Science* **266**, 1247-1250.
- DELOURME, R., EBER, F. & CHÈVRE, A. M. 1989: Intergeneric hybridization of *Diplotaxis erucoides* with *Brassica napus*. I. Cytogenetic analysis of F_1 and BC_1 progeny. *Euphytica* **41**, 123-128.
- DEVADAS, S. K., ENYEDI, A. & RAINA, R. 2002: The *Arabidopsis hrl1* mutation reveals novel overlapping roles for salicylic acid jasmonic acid and ethylene signaling in cell death and defence against pathogens. *Plant J.* **30**, 467-480.
- DEVOTO, A. & TURNER, J. G. 2003: Regulation of jasmonate-mediated plant responses in *Arabidopsis*. *Ann. Bot.* **92**, 329-337.
- DE WIT, P. J. G. M. 1992: Molecular characterization of gene-for-gene systems in plant-fungus interactions and the applications of avirulence genes in control of plant pathogens. *Annu. Rev. Phytopath.* **30**, 391-418.
- DE WIT, P. J. G. M. 1997: Pathogen avirulence and plant resistance: a key role for recognition. *Trends Plant Sci.* **2**, 452-458.
- DILLARD, H. R., COBB, A. C., & LAMBOY, J. S. 1998: Transmission of *Alternaria brassicicola* to cabbage by flea beetles (*Phyllotreta cruciferae*). *Plant Dis.* **82**, 153-157.
- DIXON, R. A. 2001: Natural products and plant disease resistance. *Nature* **411**, 843-847.
- DIXON, R. A., ACHNINE, L., KOTA, P., LIU, C.-J., REDDY, M. S. S. & WANG, L. 2002: The phenylpropanoid pathway and plant defense - a genomics perspective. *Mol. Plant Pathol.* **3**, 371-390.
- DOREY, S., BAILLIEUL, F., SAINDRENAN, P., FRITIG, B. & KAUFFMANN, S. 1998: Tobacco class I and II catalases are differentially expressed during elicitor-induced hypersensitive cell death and localized acquired resistance. *Mol. Plant Microbe Interact.* **11**, 1102-1109.
- DUNCAN, R. R., WASKOM, R. M. & NABORS, M. W. 1995: In vitro screening and field evaluation of tissue-culture regenerated sorghum (*Sorghum bicolor* (L.) Moench) for soil stress tolerance. *Euphytica* **85**, 373-380.
- EARLE, E. D. 1994: Analysis of somatic hybrids and cybrids obtained by fusion of *B. rapa* and *B. oleracea*. In: Y. P. S. Bajaj (Ed.). *Somatic hybridization in Crop Improvement I. Biotechnology in Agriculture and Forestry* **27**, 305-319. Springer-Verl., Heidelberg.

- EDWARDS, K., JOHNSTONE, C. & THOMPSON, C. 1991: A simple method for the preparation of plant genomic DNA for PCR analysis. *Nucleic Acid Res.* **19** (6), 1349.
- EENINK, A. H. 1974: Matromorphy in *Brassica oleracea* L. I. Terminology, parthenogenesis in Cruciferae and the formation and usability of matromorphic plants. *Euphytica* **23**, 429-433.
- ELLIS, J. & JONES, D. 1998: Structure and function of proteins controlling strain specific pathogen resistance in plants. *Curr. Opin. Plant Biol.* **1**, 288-293.
- ELLIS J. G., LAWRENCE G. J., LUCK J. E. & DODDS, P. N. 1999: Identification of regions in alleles of the flax rust resistance gene L that determine differences in gene-for-gene specificity. *Plant Cell* **11**, 459-506.
- ELLIS, J., DODDS, P. & PRYOR, T. 2000: Structure, function and evolution of plant disease resistance genes. *Curr. Opin. Plant Biol.* **3**, 279-284.
- ESPINASSE, A., FOUEILLASSAR, J. & KIMBER, G. 1995: Cytogenetical analysis of hybrids between sunflower and four wild relatives. *Euphytica* **82**, 65-72.
- FAN, C. Y. & KÖLLER, W. 1998: Diversity of cutinases from plant pathogenic fungi – differential and sequential expression of cutinolytic esterases by *Alternaria brassicicola*. *FEMS Microbiol. Lett.* **158**, 33-38.
- FAO 2004: <http://faostat.fao.org/faostat/collections?version=ext&hasbulk=0&subset=agriculture>
- FEYS B. J. & PARKER J. E. 2000: Interplay of signaling pathways in plant disease resistance. *Trends Genet.* **16**, 449-455.
- FILIPPONE, M. P., DIAZ RICCI, J., MAMANI DE MARCHESE, A., FARÍAS, R. N. & CASTAGNARO, A. 1999: Isolation and purification of a 316 Da preformed compound from strawberry (*Fragaria ananassa*) leaves active against plant pathogens. *FEBS Lett.* **459**, 115-118.
- FLOR, H. H. 1971: Current status of the gene-for-gene concept. *Ann. Rev. Phytopathol.* **9**, 275-296.
- FRANKE, W. 1989: Nutzpflanzenkunde. G. Thieme Verlag, Stuttgart, New York, pp 157-158.
- FRIC, F. & TAMÁS, L. 1993: Barley responses to *Erysiphe graminis* f. sp. *hordei* (Marchal) attack in the preparasitic stage of their interaction, *Acta Phytopathologica et Entomologica Hungarica* **28**, 161-172.
- GAFFNEY, T., FRIEDRICH, L., VERNOOIJ, B., NEGROTTI, D., NYE, G., UKNES, S., WARD, E., KESSMANN, H., & RYALS, J. 1993: Requirement of salicylic acid for the induction of systemic acquired resistance. *Science* **261**, 754-756.
- GAIKWAD, K., KIRTI, P. B., SHARMA, A., PRAKASH, S. & CHOPRA, V. L. 1996: Cytogenetical and molecular investigations on somatic hybrids of *Sinapis alba* and *Brassica juncea* and their backcross progeny. *Plant Breeding* **115**, 480-483.
- GAMBORG, O. L., MILLER, R. A. & OJIMA, K. 1968: Nutrient requirement of suspension cultures of soybean root cells. *Exp. Cell. Res.* **50**, 151-158.
- GARBE, V. 1996: Krankheiten im Raps - Was tun? *Raps* **14**, 156-159.
- GERDEMANN-KNÖRCK, M., SACRISTÁN, M. D., BRAATZ, C. & SCHIEDER, O. 1994: Utilization of asymmetric somatic hybridization for the transfer of disease resistance from *Brassica nigra* to *Brassica napus*. *Plant Breeding* **113**, 106-113.
- GIAMOUSTARIS, A. & MITHEN, R. 1997: Glucosinolates and disease resistance in oilseed rape (*Brassica napus* ssp. *oleifera*). *Plant Pathol.* **46**, 271-275.

- GLAZEBROOK, J. 2001: Genes controlling expression of defense responses in *Arabidopsis*-2001 status. Curr. Opin. Plant Biol. **4**, 301-308.
- GLAZEBROOK, J. L. & AUSUBEL, F. M. 1994: Isolation of phytoalexin-deficient mutants of *Arabidopsis thaliana* and characterization of their interaction with bacterial pathogens. Proc. Natl. Acad. Sci. USA **91**, 8955-8959.
- GLAZEBROOK, J., CHEN, W., ESTES, B., CHANG, H.-S., NAWRATH, C., METRAUX, J.-P., ZHU, T. & KATAGIRI, F. 2003: Topology of the network integrating salicylate and jasmonate signal transduction derived from global expression phenotyping. Plant J. **31**, 217-228.
- GLAZEBROOK, J., ZOOLTI, M., MERT, F., KAGAN, I., ROGERS, E. E., CRUTE, I. R., HOLUB, E. B., HAMMERSCHMITS, R. & AUSUBEL, F. M. 1997: Phytoalexin-deficient mutants of *Arabidopsis* reveal that PAD4 encodes a regulatory factor and that four PAD genes contribute to downy mildew resistance. Genetics **146**, 381-392.
- GLAZENER, J. A., ORLANDI, E. W. & BAKER, C. J. 1996: The active oxygen response of cell suspensions to incompatible bacteria is not sufficient to cause hypersensitive cell death. Plant Physiol. **110**, 759-763.
- GLIMELIUS, K., FAHLESON, J., LANDGREN, M., SJODIN & C., SUNDBERG, E. 1991: Gene transfer via somatic hybridization in plants. Trends Biotechnol. **9**, 24-30.
- GRANT, M. R., McDOWELL, J. M., SHARPE, A. G., DE TORRES ZABALA, M., LYDIATE, D. J., & DANGI, J. L. 1998: Independent deletions of a pathogen-resistance gene in *Brassica* and *Arabidopsis*. Proc. Natl. Acad. Sci. USA **95**, 15843-15848.
- GRANT, M. & MANSFIELD, J. 1999: Early events in host-pathogen interactions. Curr. Opin. Plant Biol. **2**, 312-319.
- GUGEL, R. K. & PETRIE, G. A. 1992: History, occurrence, impact and control of blackleg of rapeseed. Can. J. Plant Pathol. **14**, 36-45.
- GUGEL, R. K. & SÉGUIN-SWARTZ, G. 1997: Introgression of Blackleg resistance from *Sinapis alba* into *Brassica napus*. Brassica 97 - 2nd Int. Symp. on Brassicas/10th Cruc. Gen. Workshop, 23-27 September 1997, Book of Abstracts, p 222.
- HAMMOND-KOSACK, K. E. & JONES, J. D. G. 1996: Resistance gene-dependent plant defense responses. Plant Cell **8**, 1773-1792.
- HAMMOND-KOSACK, K. E. & PARKER, J. E. 2003: Deciphering plant-pathogen communication: fresh perspectives for molecular resistance breeding. Curr. Opin. Biotechnol. **14**, 177-193.
- HANSEN, L. H., 1998: Intertribal somatic hybridization between rapid cycling *Brassica oleracea* (L.) and *Camelina sativa* (L.) Cranz. Euphytica **104**, 173-179.
- HANSEN, L. H. & EARLE, E. D. 1997: Somatic hybrids between *Brassica oleracea* (L.) and *Sinapis alba* (L.) with resistance to *Alternaria brassicaceae* (Berk.) Sacc. Theor. Appl. Genet. **94**, 1078-1085.
- HANSEN, L. N., KING, S. R. & EARLE, E. D. 1995: Screening for resistance to *Alternaria brassicaceae* (Berk.) Sacc. in *Sinapis alba* L. Cruciferae Newslett. Eucarpia **17**, 76-78.
- HARBERD, D. J. 1976: Cytotaxonomic studies of *brassica* and related genera. In: J. G Vaughan, A. J. Macleod and B. M. G. Jones (Eds.). The biology and chemistry of the cruciferae. Academic Press, London, pp. 47-68.
- HARBERD, D. J. & MCARTHUR, E. D. 1980: Meiotic analysis of some species and genus hybrids in the *Brassicaceae*. In: S. Tsunoda, K. Hinata and C. Gomez-Campo (Eds.). *Brassica* crops and wild allies. Japan Scientific Societies Press, Tokyo, pp. 65-67.

- HARBINDER, S. & LAKSHMIKUMARAN, M. 1990: A repetitive sequence from *Diplotaxis erucoides* is highly homologous to that of *Brassica campestris* and *B. oleracea*. Plant Mol. Biol. **15**, 155-156.
- HEATH, M. C. 2000: Nonhost resistance and nonspecific plant defenses. Curr. Opin. Plant Biol. **3**, 315-319.
- HENNIG, J., DEWEY, R. E., CUTT, J. R. & KLESSIG, D. F. 1993: Pathogen, salicylic acid and developmental dependent expression of a β -1,3-glucanase/GUS gene fusion in transgenic tobacco plants. Plant J. **4**, 481-493.
- HESLOP-HARRISON J. S. 1996: Comparative analysis of plant genome architecture. Symp. Soc. Exp. Biol. **50**, 17-23.
- HESLOP-HARRISON J. S. 2000: Comparative genome organization in plants: from sequence and markers to chromatin and chromosomes. Plant Cell **12**, 617-635.
- HEYN, F. W. 1977: Analysis of unreduced gametes in the *Brassicaceae* by crosses between species and ploidy levels. Z. Pflanzenzüchtg. **78**, 13-30.
- HINATA, K. & KONNO, N. 1979: Studies on a male sterile strain having the *Brassica campestris* nucleus and the *Diplotaxis muralis* cytoplasm I. On the breeding procedure and some characteristic of the male sterile strain. Jap. J. Breed. **29**, 305-311.
- HODGKIN, T. & McDONALD, M. V 1986: The effect of a phytotoxin from *Alternaria brassicicola* on *Brassica* pollen. New Phytologist **104**(4). 631-636.
- HOFFMANN, W., MUDRA, P., PLARRE, W. 1985: Lehrbuch der Züchtung landwirtschaftlicher Kulturpflanzen. Verlag Paul Parey.
- HOLUB, E. B. 2001: The arms race is ancient history in *Arabidopsis*, the wildflower. Nat. Rev. Genet. **2**, 516-527.
- HONG, C. X. & FITT, B. D. L. 1995: Effect of inoculum concentration, leaf age and wetness period on the development of dark leaf and pod spot (*Alternaria brassicae*) on oilseed rape (*Brassica napus*). Ann. Appl. Biol. **127**, 283-295.
- HONG, J. K., JUNG, H. W., KIM, Y. J. & HWANG, B. K. 2000: Pepper gene encoding a basic class II chitinase is inducible by pathogen and ethephon. Plant Sci. **159**, 39-49.
- HORVATH, H., ROSTOKS, N., BRUEGGEMAN, R., STEFFENSON, B., VON WETTSTEIN, D. & KLEINHOFSS, A. 2003: Genetically engineered stem rust resistance in barley using the *Rpg1* gene. Proc. Natl. Acad. Sci. USA **100**, 364-369.
- HOWARD, H. W. 1938: The fertility of amphidiploids from the cross *Raphanus sativum* x *Brassica oleracea*. J. Genet. **36**, 239-273.
- HULBERT, S. H., WEBB, C. A., SMITH, S. M. & SUN, Q. 2001: Resistance gene complexes: evolution and utilization. Ann. Rev. Phytopathol. **39**, 285-312.
- HUMPHERSON-JONES, F. M. 1992: The development of weather-related disease forecasts for vegetable crops in the UK. Problems and prospects. OEPP/EPPO Bulletin **21**, 425-429.
- HUMPHERSON-JONES, F. M. & PHELPS, K. 1989: Climatic factors influencing spore production in *Alternaria brassicae* and *Alternaria brassicicola*. Ann. Appl. Biol. **114**, 449-458.
- INABA, R. & NISHIO, T. 2002: Phylogenetic analysis of *Brassicaceae* based on the nucleotide sequences of the S-locus related gene, *SLR1*. Theor. Appl. Genet. **105**, 1159-1165.

- INOMATA, N. 1985: A revised medium for in vitro cultures of *Brassica* ovaries. In: G. P. Chapman, S. H. Mantell and R. W. Daniels (Eds.). *The experimental manipulation of ovule tissues*, Longman, London, New York, pp. 164-176.
- INOMATA, N. 1993: Embryo rescue techniques for wide hybridization. In: K. S. Labana, S. S. Banga and S. K. Banga (Eds.). *Breeding Oilseed Brassicas. Monographs on Theor. Appl. Genet.* **19**, 94-107. Springer-Verl., Heidelberg.
- INOMATA, N. 1994: Intergeneric hybridization between *Brassica juncea* and *Diplostaxis virgata*, and their cytology. *Cruciferae Newslett. Eucarpia* **16**, 30-31.
- JARETZKY, R. 1932: Beziehungen zwischen Chromosomenzahl und Systematik bei den Cruciferen. *Jahrb. Wiss. Bot.* **76**, 485-527.
- JEJELOWO, O. A., CONN, K. L. & TEWARI, J. P. 1991: Relationship between conidial concentration, germling growth and phytoalexin production by *Camelina sativa* leaves inoculated with *Alternaria brassicaceae*. *Mycol. Res.* **95**, 928-934.
- JELENIC, S., BERLJAK, J., PAPES, D. & JELASKA, S. 2001: Mixoploidy and chimeric structures in somaclones of potato (*Solanum tuberosum* L.) cv. Bintje. *Food Technology & Biotechnology*. **39**, 13-17.
- JI, C., SMITH-BECKER, J. & KEEN, N. T. 1998: Genetics of plant-pathogen interactions. *Curr. Opin. Biotechnol.* **9**, 202-207.
- JOHNSON, R. 1984: A critical analysis of durable resistance. *Ann. Rev. Phytopathol.* **22**, 309-330.
- JONES, J. D. 2001: Putting knowledge of plant disease resistance genes to work. *Curr. Opin. Plant Biol.* **4**, 281-287.
- JONOUBI, P., MOUSAVI, A., MAJD, A., SALMANIAN, A. H., JAVARAN, M. J. & DANESHIAN, J. 2005: Efficient regeneration of *Brassica napus* L. hypocotyls and genetic transformation by *Agrobacterium tumefaciens*. *Biologia Plantarum*. **49**, 175-180.
- JOSHI, P. & CHOUDHARY, B. R. 1999: Interspecific hybridization in *Brassica*. I. *B. carinata* x *B. tournefortii*. *Proc. 10th Int. Rapeseed Congr.*, Canberra, Australia.
- JOSHI, M. K., SINGH, U. S. & GARGH G. K. 1988: Use of *Brassica* callus culture to induce sporulation in *Alternaria brassicaceae* (Berk.) Sacc. *Plant Cell Tissue Organ Culture* **14**, 59-62.
- JOURDAN, P. 1994: Resynthesis of *Brassica napus* through protoplast fusion between *B. oleracea* and *B. rapa*. In: Y. P. S. Bajaj (Ed.). *Somatic hybridization in Crop Improvement I. Biotechnology in Agriculture and Forestry* **27**, pp. 295-304. Springer-Verl., Heidelberg.
- JUNG, H. W. & HWANG, B. K. 2000: Pepper gene encoding a basic β -1,3-glucanase is differentially expressed in pepper tissues upon pathogen infection and ethephon or methyl jasmonate treatment. *Plant Sci.* **159**, 97-106.
- KACHROO, P., KACHROO, A., LAPCHYK, L., HILDEBRAND, D., KLESSIG, D. F. 2003: Restoration of defective cross talk in ssi2 mutants: role of salicylic acid, jasmonic acid, and fatty acids in SSI2-mediated signalling. *Mol. Plant Microbe Interact.* **16**, 1022-1029.
- KAGAN, I. A. & HAMMERSCHMIDT, R. 2002: *Arabidopsis* ecotype variability in camalexin production and reaction to infection by *Alternaria brassicicola*. *J. Chemical Ecol.* **28**, 2121-2140.
- KALLOO, G. 1992: Utilization of wild species. In: G. Kalloo and J. B. Chowdhury (Eds.). *Distant hybridization of crop plants*. Springer-Verl., Heidelberg, 149-167.
- KAMALA, T. 1976: Interspecific hybrids in *Brassica*. *Cytologia* **41**, 407-415.

- KAPILA, R., NEGI, M. S., THIS, P., DELSENY, M., SRIVASTAVA P. S. & LAKSHMIKUMARAN, M. 1996: A new family of dispersed repeats from *Brassica nigra*: characterization and localization. *Theor. Appl. Genet.* **93**, 1123-1129.
- KARP, A. 1991: On the current understanding of somaclonal variation. In: B. J. Miflin (Ed.). *Oxford Survey of Plant Molecular and Cell Biology 7*, Oxford University Press, Oxford, pp. 1-58.
- KARPETCHENKO, G. D. 1924: The number of chromosomes and the genetic correlation of cultivated *Cruciferae*. *Trudy Prikl. Bot. Selektks.* **13**, 3-14.
- KAUSS, H., WALDMANN, T., JEBLICK, W., EULER, G., RANJEVA, R. & DOMARD, A. 1989: Ca^{2+} is an important but not the only signal in callose synthesis induced by chitosan, saponins and polyene antibiotics, In: *Signal molecules in plants and plant-microbe-interactions*, Vol.1. Springer-Verl., Berlin, pp. 107-116.
- KAWASAKI, T., HENMI, K., ONO, E., HATAKEYAMA, S., IWANO, M., SATOH, H. & SHIMAMOTO, K. 1999: The small GTP-binding protein Rac is a regulator of cell death in plants. *Proc. Natl. Acad. Sci. USA* **96**, 10922-10926.
- KEEN, N. T. 1990: Gene-for-gene complementarity in plant-pathogen interactions. *Ann. Rev. Genet.* **24**, 447-463.
- KHAN, M. R., RASHID, H., ANSAR, M. & CHAUDRY, Z. 2003: High frequency shoot regeneration and *Agrobacterium*-mediated DNA transfer in Canola (*Brassica napus*). *Plant Cell Tissue & Organ Culture* **75**, 223-231.
- KHUSH, G. S. & BRAR, D. S. 1992: Overcoming the barriers in hybridization. In: G. Kalloo and J. B. Chowdhury (Eds.). *Distant hybridization of crop plants*. Springer-Verl., Heidelberg, 47-61.
- KIEBER, J. J. 1997: The ethylene response pathway on *Arabidopsis*. *Ann. Rev. Plant Physiol. Plant Mol. Biol.* **48**, 277-296.
- KIRTI, P. B., MOHAPATRA, T., KHANNA, H., PRAKASH, S. & CHOPRA, V. L. 1995: *Dipterostylis catholica* + *Brassica juncea* somatic hybrids: molecular and cytogenetic characterization. *Pl. Cell Rep.* **14**, 593-597.
- KITAJIMA, S. & SATO, F. 1999: Plant pathogenesis-related proteins: Molecular mechanisms of gene expression and protein function. *J. Biochem.* **125**, 1-8.
- KLEWER, A., SCHEUNEMANN, R. & SACRISTÁN, M. D. 2003: Incorporation of blackspot resistance from different origins into oilseed rape. *Proc. 11th Internatl. Rapeseed Congress*, Copenhagen, Denmark, Book **1**, 65-67.
- KÖHLE, H. & HOFFMANN, G. M. 1989: Untersuchungen zur Physiologie des *Alternaria*-Befalls von Raps. *Z. Pflanzenkrankh. Pflanzenschutz* **96**, 225-238.
- KOLTE, S. J. 1985: *Diseases of Annual Edible Oilseed Crops 2-3*. CRC Press, Boca Raton, Florida, USA, 118 pp.
- KOLTE, S. J., AWASTHI, R. P. & VISHWANATH, S. J. 1987: Assessment of yield losses due to *Alternaria* blight in rapeseed and mustard. *Indian Phytopath.* **40**, 209-211.
- KOLTE, S. J., BORDOLOI, D. K., AWASTHI, R. P. 1991: The search for resistance to major diseases of rapeseed and mustard in India. *Proc. 8th Int. Rapeseed Congr.*, Saskatoon **1**, 219-225.
- KOMBRINK, E. & SOMSSICH, I. E. 1995: Pathogenesis-related proteins and plant defense. In: G. Carroll and P. Tudzynski (Eds.). *Plant Relationships Vol. 6*. Springer-Verl., Berlin, 107-128.

- KOMBRINK, E. & SOMSSICH, I. E. 1997: Pathogen-related proteins and plant defense. In: G. Carroll and P. Tudzynski (Eds.). *The mycota, part a, plant relationships*. Springer-Verl., Berlin, pp. 107-128.
- KORITSAS, V. M., LEWIS, J. A. & FENWICK, G. R. 1989: Accumulation of indole glucocinolates in *Psylloides chrysocephala* L.-infested, or -damaged tissues of oilseed rape (*Brassica napus* L.). *Experientia* **45**, 493-495.
- LAGERCRANTZ, U. & LYDIATE, D. 1996: Comparative genome mapping in *Brassica*. *Genetics* **144**, 1903-1910.
- LAGERCRANTZ, U. 1998: Comparative mapping between *Arabidopsis thaliana* and *Brassica nigra* indicates that *Brassica* genomes have evolved through extensive genome replication accompanied by chromosome fusions and frequent rearrangements. *Genetics* **150**, 1217-1228.
- LAMB, R. J. 1980: Hairs protect pods of mustard (*Brassica hirta* "Gisilba") from flea beetle feeding damage. *Can. J. Plant. Sci.* **60**, 1439-1440.
- LAMB, C. & DIXON, R. A. 1997: The oxidative burst in plant disease resistance. *Ann. Rev. Plant Physiol. Plant Mol. Biol.* **48**, 251-275.
- LARKIN, P. J. & SCOWCROFT, W. R. 1981: Somaclonal variation - a novel source of variability from cell culture for plant improvement. *Theor. Appl. Genet.* **60**, 197-214.
- LEFOL, E., DANIELOU, V., DARMENCY, H., BOUCHER, F., MAILLET, J. & RENARD, M. 1995: Gene dispersal from transgenic crops. 1. Growth of interspecific hybrids between oilseed rape and wild hoary mustard. *J. Appl. Ecol.* **32**, 803-808.
- LELIVELT, C. L. C. & HOOGENDOORN, J. 1993: The development of juveniles of *Heterodera schachtii* in roots of resistant and susceptible genotypes of *Sinapis alba*, *Brassica napus*, *Raphanus sativus* and hybrids. *Neth. J. Plant Pathol.* **99**, 13-22.
- LELIVELT, C. L. C., LEUNISSEN, E. H. M., FREDERIKS, H. J., HELSPER, J. P. F. G. & KRENS, F. A. 1993: Transfer of resistance to the beet cyst nematode (*Heterodera schachtii* Schm.) from *Sinapis alba* L. (white mustard) to the *Brassica napus* gene pool by means of sexual and somatic hybridization. *Theor. Appl. Genet.* **85**, 688-696.
- LEVINE, A., TENHAKEN, R., DIXON, R. & LAMB, C. 1994: H_2O_2 from the oxidative burst orchestrates the plant hypersensitive disease resistance response. *Cell* **79**, 583-593.
- LI, H., SIVASITHAMPARAM, K. & BARBETTI, M. J. 2003: Breakdown of a *Brassica rapa* subsp. *sylvestris* single dominant blackleg resistance gene in *B. napus* rapeseed by *Leptosphaeria maculans* field isolates in Australia. *Plant Dis.* **87**, 752.
- LIGTERINK, W., KROJ, T., ZUR NIEDEN, U., HIRT, H. & SCHEEL, D. 1997 Receptor-mediated activation of a MAP kinase in pathogen defense of plants. *Science* **276**, 2054-2057.
- LIU, Y., SCHIFF, M., SERINO, G., DENG, X. W. & DINESH-KUMAR, S. P. 2002: Role of SCF ubiquitin-ligase and the COP9 signalosome in the N genemediated resistance response to Tobacco mosaic virus. *Plant Cell* **14**, 1483-1496.
- LOUVET, J. & BILLOTTE, J. M. 1964: Influence des facteurs climatiques sur les infections du Colza par l'*Alternaria brassicae* et consequences pour la lutte. *Annales des Epiphyties* **15**, 229-243.
- LOWE, A. J., JONES, A. E., RAYBOULD, A. F., TRICK, M., MOULE, C. L. & EDWARDS, K. J. 2002: Transferability and genome specificity of a new set of microsatellite primers among *Brassica* species of the U triangle. *Mol. Ecol. Notes* **2**, 7-11.

- LOWE, A., MOULE, C., TRICK, M. & EDWARDS, K. J. 2003: Efficient large-scale development of microsatellites for marker and mapping applications in *Brassica* crop species. *Theor. Appl. Genet.* **108**, 1103-1112.
- LÜHS, W. & FRIEDT, W. 1997: Wann ist mit ersten transgenen Rapssorten in Deutschland zu rechnen? *Raps* **15**, 10-17.
- LUND, S. T., STALL, R. E. & KLEE, H. J. 1998: Ethylene regulates the susceptible response to pathogen infection in tomato. *Plant Cell* **10**, 371-382.
- MARTIN, G. M. 1999: Functional analysis of plant disease resistance genes and their downstream effectors. *Curr. Opin. Plant Biol.* **2**, 273-279.
- MALECK, K. & DIETRICH, R. A. 1999: Defense on multiple fronts: how do plants cope with diverse enemies? *Trends Plant Sci.* **4**, 215-219.
- MALIK, M., VYAS, P. O., RANGASWAMY, N. S. & SHIVANNA, K. R. 1999: Development of two new cytoplasmic male-sterile lines in *Brassica juncea* through wide hybridization. *Plant Breeding* **118**, 75-78.
- MANICI, L. M., LAZZERI, L. & PALMIERI, S. 1997: In vitro fungitoxic activity of some glucosinolates and their enzyme-derived products toward plant pathogenic fungi. *J. Agric. Food Chem.* **45**, 2768-2773.
- MANTON, I. 1932: Introduction to the general cytology of the Cruciferae. *Ann. Bot. (London)* **46**, 509-556.
- MATHIEU, Y., KURKDIJAN, A., XIA, H., GUERN, J., KOLLER, A., SPIRO, M. D., O'NEILL, M., ALBERSHEIM, P. & DARVILL, A. 1991: Membrane responses induced by oligogalacturonides in suspension-cultured tobacco cells. *Plant J.* **1**, 33-343.
- MAUDE, R. B. & HUMPHERSON-JONES, F. M. 1980: Studies on the seed-borne phases of dark leaf spot (*Alternaria brassicicola*) and grey leaf spot (*Alternaria brassicae*) of *Brassicas*. *Ann. Appl. Biol.* **95**, 311-319.
- McDOWELL, J. M. & DANGL, J. L. 2000: Signal transduction in the plant immune response. *Trends Biochem Sci.* **25**, 79-82.
- McDOWELL, J. M. & WOFFENDEN, B. J. 2003: Plant disease resistance genes: recent insights and potential applications. *Trends Biotechnol.* **21**, 178-183.
- MENDHAM, N. J., & SALISBURY, P. A. 1995: Physiology: Crop development, growth and yield. In: D. Kimber and D. I. McGregor (Eds.). *Brassica oilseeds: Production and utilization*. CAB International, UK, pp. 11-64.
- MICHELMORE, R. W., PARAN, I. & KESSELI, R. V. 1991: Identification of markers linked to disease resistance genes by bulked segregant analysis - a rapid method to detect markers in specific genomic regions by using segregating populations. *Proc. Natl. Acad. Sci. USA* **88**, 9828-9832.
- MICHELMORE, R. W. 2000: Genomic approaches to plant disease resistance. *Curr. Opin. Plant Biol.* **3**, 125-131.
- MIFLIN, B. 2000: Crop improvement in the 21st century. *J. Exp. Bot.* **51**, 1-8.
- MILLER, U. L. 1955: V8 juice agar as a general purpose medium for fungi and bacteria. *Phytopathol.* **45**, 461-462.
- MIZUSHIMA, U. 1950: Karyogenetic studies of species and genus hybrids in the tribe *Brassicaceae* of *Cruciferae*. *Tohoku J. Agric. Res.* **1**, 1-14.

- MIZUSHIMA, U. 1950: Karyogenetic studies of species and genus hybrids in the tribe *Brassicaceae* of Cruciferae. *Tohoku J. Agric. Res.* **1**, 1-14.
- MIZUSHIMA, U. 1972: Evolution of species in *Brassicaceae* and their breeding. *Kagaku Seibutsu* **10**, 78-85.
- MIZUSHIMA, U. 1980: Genome analysis in *Brassica* and allied genera. In: S. Tsunada, K. Hinata and C. Gomez-Campo (Eds.). *Brassica crops and wild allies*. Jpn. Sci. Soc. Tokyo, 89-108.
- MOHAPATRA, D. & BAJAJ, Y. P. S. 1987: Interspecific hybridization in *Brassica juncea* x *Brassica hirta* using embryo rescue. *Euphytica* **36**, 321-326.
- MOHAPATRA, T., KIRTI, P. B., KUMAR, V. D., PRAKASH, S. & CHOPRA, V. L. 1998: Random chloroplast segregation and mitochondrial genome recombination in somatic hybrid plants of *Dipotaxis catholica* + *Brassica juncea*. *Plant Cell Rep.* **17**, 814-818.
- MONDAL, K. K., CHATTERJEE, S. C., VISWAKARMA, N., BHATTACHARYA, R. C. & GROVER, A. 2003: Chitinase-mediated inhibitory activity of *Brassica* transgenic on growth of *Alternaria brassicae*. *Curr. Microbiol.* **47**, 171-173.
- MORA, A. & EARLE, E. D. 2001: Combination of *Trichoderma harzianum* endochitinase and membrane-affecting fungicide on control of *Alternaria* leaf spot in transgenic brocolli plants. *Appl. Microbiol. Biotechnol.* **55**, 306-310.
- MORINAGA, T. 1928: Preliminary note on interspecific hybridization in *Brassica*. *Proc. Imp. Acad.* **4**, 620-622.
- MRIDHA, M. A. U. 1983: Virulence of different isolates of *Alternaria brassicae* on winter oilseed rape cultivars. *Proc. 6th Int. Rapeseed Congr.*, Paris, 1025-1031.
- MÜLLER, K. O. & BÖRGER, H. 1940: Experimentelle Untersuchungen über die *Phytophthora*-Resistenz der Kartoffel. *Arb. Biol. Reichsanst. Land. Forstw.* **23**, 189-231.
- MÜLLER, E., NEUMANN, D., NELLES, A. & BRÄUTIGAM, E. 1976: Alkaloid transport and distribution in *Nicotiana* and *Macleaya*. Diversity and unity. *Nova Acta Leopold.*, Suppl. **7**, 133-138.
- MURASHIGE, T. & SKOOG, F. 1962: Revised media for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plantarum* **15**, 473-497.
- MUSKETT, P. R., KAHN, K., AUSTIN, M. J., MOISAN, L. J., SADANANDOM, A., SHIRASU, K., JONES, J. D. & PARKER, J. E. 2002: *Arabidopsis RAR1* exerts ratelimiting control of R-gene-mediated defenses against multiple pathogens. *Plant Cell* **14**, 979-992.
- NANDA KUMAR, P. B. A. & SHIVANNA, K. R. 1993: Intergeneric hybridization between *Dipotaxis sittiana* and crop brassicas for the production of alloplasmic Lines. *Theor. Appl. Genet.* **85**, 770-776.
- NARASIMHULU, S. B., KIRTI, P. B., BHAT, S. R., PRAKASH, S. & CHOPRA, V. L. 1994: Intergeneric protoplast fusion between *Brassica carinata* and *Camelina sativa*. *Plant Cell Rep.* **13**, 657-660.
- NARUSAKA, Y., NARUSAKA, M., SEKI, M., ISHIDA, J., NAKASHIMA, M., KAMIYA, A., ENJU, A., SAKURAI, T., SATOH, M., KOBAYASHI, M., TOSA, Y., PARK, P. & SHINOZAKI, K. 2003: The cDNA microarray analysis using an *Arabidopsis pad3* mutant reveals the expression profiles and classification of genes induced by *Alternaria brassicicola* attack. *Plant Cell Physiol.* **44**, 377-387.
- NEERGAARD, P. 1945: Danish species of *Alternaria* and *Stemphylium*. Oxford University Press, London.
- NIELEN, S. 1999: Molekulare Untersuchungen und genomische *in situ* Hybridisierung asymmetrischer somatischer *Brassica napus* (+) *Brassica nigra* Hybriden sowie deren sexueller Nachkommenschaften. Diss., Freie Universität Berlin, 113 S.

- NIRMALA, A. & RAO, P. N. 1996: Genesis of chromosome numerical mosaicism in higher plants. *Nucleus* **39**, 151-175.
- NISHIYAMA, I., SARASHIMA, M. & MATSUZAWA, Y. 1991: Critical discussion on abortive interspecific crosses in *Brassica*. *Plant Breeding* **107**, 288-302.
- Nitsch, J. P. & Nitsch, C. 1969: Haploid plants from pollen grains. *Science* **163**, 85-87.
- NOTHNAGEL, T., BUDAHN, H., STRAKA, P. & SCHRADER, O. 1996: Erfolgreiche Rückkreuzung somatischer Hybriden zwischen *Sinapis alba* und *Brassica oleracea* mit dem *B. oleracea* Elter. Vortr. Pflanzenzüchtg. **32**, 73-75.
- OLDROYD, G. E. D. & STASKAWICZ, B. J. 1998: Genetically engineered broad-spectrum disease resistance in tomato. *Proc. Natl. Acad. Sci. USA* **95**, 10300-10305.
- OLIN-FATIH, M. & HENEEN, W. K. 1992: C-banded karyotypes of *Brassica campestris*, *B. oleracea* and *B. napus*. *Genome* **35**, 583-589.
- OLSSON, G. 1984: Urval för hög erukasyrahalt i vitsenap (*Sinapis alba* L.). *Sveriges Utsädesförenings Tidskrift* **94**, 26-29.
- OSBORN, T. C., KOLE, C., PARKIN, I. A. P., SHARPE, A. G., KUIPER, M., LYDIATE, D. J. & TRICK, M. 1997: Comparison of flowering time genes in *Brassica rapa*, *B. napus* and *Arabidopsis thaliana*. *Genetics* **146**, 1123-1129.
- OSBOURNE, A. 1996: Saponins and plant defense - a soap story. *Trends Plant Sci.* **1**, 4-9.
- OSHIMA, M. 2000: Molecular phylogenetic relationship of *Brassica* and allied genera. *Brassica 2000* (3rd Int. Symp. on Brassicas/12th Cruc. Genet. Workshop), 5-9th September 2000, Wellesbourne/UK, Abstracts, p 21.
- OTANI, H., KOHNOBE, A., KODAMA, M. & KOHMOTO, K. 1998a: Production of a host-specific toxin by germinating spores of *Alternaria brassicicola*. *Physiol. Mol. Plant. Pathol.* **52**, 285-295.
- OTANI, H., KOHNOBE, A., KODAMA, M. & KOHMOTO, K. 1998b: Involvement of host factors in the production of a protein host-specific toxin produced by *Alternaria brassicicola*. In: K. Kohmoto and O. C. Yoder (Eds.). *Molecular genetics of host-specific toxins in plant disease*. Kluwer Academic, Dordrecht, pp 63-69.
- OTANI, H., KOHNOBE, A., NARITA, M., SHIOMI, H., KODAMA, M. & KOHMOTO, K. 2001: A new type of host-selective toxin, protein from *Alternaria brassicicola*. In: N. T. Keen, S. Mayama, J. E. Leach and S. Tsuyumu (Eds.). *Delivery and perception of pathogen signals in plants*. APS Press, St. Paul, MN, pp 68-76.
- PAGLIARINI, M. S. 2000: Meiotic behavior of economically important plant species: the relationship between fertility and male sterility. *Genet. and Mol. Biol.* **23**, 997-1002.
- PALMER, J. D., SHIELDS, C. R., COHEN, D. B. & ORTON, T. J. 1983: Chloroplast DNA evolution and the origin of amphidiploid *Brassica* species. *Theor. Appl. Genet.* **65**, 181-189.
- PALMER, J. D. & HERBON, L. A. 1988: Plant mitochondrial DNA evolves rapidly in structure, but slowly in sequence. *J. Mol. Evol.* **28**, 87-97.
- PARKER, J. E., SCHULTE, W., HAHLBROCK, K. & SCHEEL, D. 1991: An extracellular glycoprotein from *Phytophthora megasperma* f. sp. *glycinea* elicits phytoalexin synthesis in cultured parsley cells and protoplasts. *Mol. Plant-Microbe Interact.* **4**, 19-27.
- PARKIN, I., LAGERCRANTZ, V., SCHEFFLER, J., CAVELL, A., KELLY, A., TRICK, M. & LYDIATE, D. 1997: Organisation and evolution of Crucifer genomes. ISHS Symp. *Brassicas*, Rennes, Book Abstr. 8.

- PARKIN, I. A. P. & LYDIATE, D. J. 1997: Conserved patterns of chromosome pairing and recombination in *Brassica napus* crosses. *Genome* **40**, 496-504.
- PATTANAMAHAKUL, P. & STRANGE, R. N. 1999: Identification and toxicity of *Alternaria brassicicola*, the causal agent of dark leaf spot disease of *Brassica* species grown in Thailand. *Plant Pathol.* **48**, 749-755.
- PAUL, V. H. 1988: Krankheiten und Schädlinge des Rapses. Verlag Th. Mann, Gelsenkirchen, 120 S.
- PEDRAS, M. S. C. 2004: Prospects for controlling plant fungal diseases - Alternatives based on chemical ecology and biotechnology. *Can. J. Chem.* **82**, 1329-1335.
- PEDRAS, M. S. C., KAHN, A. Q. & TAYLOR, J. L. 1998: The phytoalexin camalexin is not metabolized by *Phoma lingam*, *Alternaria brassicae*, or phytopathogenic bacteria. *Plant Sci.* **139**, 1-8.
- PEDRAS, M. S. C., MONTAUT, S., ZAHARIA, I. L., GAI, Y. & WARD D. E. 2003: Transformation of the host-selective toxin destruxin B by wild crucifers: probing a detoxification pathway. *Phytochemistry* **64**, 957-963.
- PEDRAS, M. S. C., ZAHARIA, I. L., GAI, Y., SMITH, K. C. & WARD, D. E. 1999: Metabolism of the host-selective toxins Destruxin B and Homodestruxin B: Probing a plant disease resistance trait. *Organic Lett.* **1**, 1655-1658.
- PEDRAS, M. S. C., ZAHARIA, I. L., GAI, Y., ZHOU, Y. & WARD, D. E. 2001: *In planta* sequential hydroxylation and glycosylation of a fungal phytotoxin: Avoiding cell death and overcoming the fungal invader. *Proc. Natl. Acad. Sci., USA* **98**, 747-752.
- PEDRAS, M. S. C., ZAHARIA, I. L. & WARD, D. E. 2002: The destruxins: synthesis, biosynthesis, biotransformation, and biological activity. *Phytochemistry*, **59**, 579-596.
- PENNINCKX, I. A. M. A., EGGERMONT, K., TERRAS, F. R. G., THOMMA, B. P. H. J., DE SAMBLANX, G. W., BUCHALA, A., METRAUX, J.-P., MANNERS, J. M. & BROEKAERT, W. F. 1996: Pathogen-induced systemic activation of a plant defensin gene in *Arabidopsis* follows a salicylic acid-independent pathway. *Plant Cell* **8**, 2309-2323.
- PIETERSE, C. M. J., VAN WEES, S. C. M., VAN PELT, J. A., KNOESTER, M., LAAN, R., GERRITS, H., WEISBEEK, P. J. & VAN LOON, L. C. 1998: A novel signaling pathway controlling induced systemic resistance in *Arabidopsis*. *Plant Cell* **10**, 1571-1580.
- PIKAARD, C. S. 2001: Genomic change and gene silencing in polyploids. *Trends Genet.* **17**, 675-677.
- PINK, D. A. C. 2002: Strategies using genes for non-durable resistance. *Euphytica* **1**, 227-236.
- PLIESKE, J. & STRUSS, D. 2001: Microsatellite markers for genome analysis in *Brassica*. I. development in *Brassica napus* and abundance in *Brassicaceae* species. *Theor. Appl. Genetics*, **102**, 689-694.
- PLÜMPER, B. 1995: Somatische und sexuelle Hybridisierungen für den Transfer von Krankheitsresistenzen auf *Brassica napus* L. Diss., Freie Universität Berlin, 108 S.
- PLÜMPER, B. & SACRISTÁN, M. D. 1995: Asymmetric somatic hybrids *Sinapis alba* (+) *Brassica napus*. *Rapeseed Today and Tomorrow* **4**, 1240-1242.
- PRAKASH, S. & HINATA, K. 1980: Taxonomy, cytogenetics and origin of crop *Brassicas*, a review. *Opera Botanica* **55**, 1-57.

- PRELL, H. H. & DAY, P. R. 2001: Plant-fungal pathogen interaction. A classical and molecular view. Springer-Verl., Berlin, Heidelberg, New York, 214 S.
- PRIMARD, C., VEDEL, F., MATHIEU, C., PELLETIER, G. & CHÈVRE, A. M. 1988: Interspecific somatic hybridization between *Brassica napus* and *Brassica hirta* (*Sinapis alba* L.). *Theor. Appl. Genet.* **75**, 546-552.
- POUZET, A. 1995: Agronomy, In: D. S. Kimber and D. I. McGregor (Eds.): *Brassica oilseeds, production and utilization*, CAB International, Wallingford, UK.
- QUIROS, C. F., OCHOA, O. & DOUCHE, D. S. 1988: Exploring the role of $x=7$ species in *Brassica* evolution: hybridization with *B. nigra* and *B. oleracea*. *J. Heredity* **79**, 351-358.
- QUIROS, C. F., OCHOA, O. & KIANIAN, S. F. 1986: Hybridization of two cultivated *Brassica* species with wild relatives of $x = 7$ chromosomes. *Cruciferae Newslett. Eucarpia* **11**, 16.
- RADCHUK, V. V., KLOCKE, E., RADCHUK, R. I., NEUMANN, M. & BLUME, Y. B. 2000: Production of transgenic rapeseed *Brassica napus* L. by transformation with *Agrobacterium tumefaciens*. *Russian Journal of Genetics* **36**, 767-775.
- RANGEL, J. F. 1945: Two *Alternaria* diseases of cruciferous plants. *Phytopath.* **35**, 1002-1007.
- RASK, L., ANDREASSON, E., EKBOM, B., ERIKSSON, S., PONTOPPIDAN, B. & MEIJER, J. 2000: Myrosinase: gene family evolution and herbivore defense in *Brassicaceae*. *Plant Mol. Biol.* **42**, 93-113.
- RAYMER, L. 2002: Reprinted from: Trends in new crops and new uses 2002. J. Janick and A. Whipkey (Eds.). ASHS Press, Alexandria, Virginia.
- RENARD, M. & DOSBA, F. 1980: Etude de l'haploidie chez le colza (*Brassica napus* L. var *oleifera* Metzger). *Ann. Amel. Pl.* **30**, 191-209.
- REYMOND, P. & FARMER, E. E. 1998: Jasmonate and salicylate as global signals for defence gene expression. *Curr. Opin. Plant Biol.* **1**, 404-411.
- RICHTER, T. & RONALD, P. 2000: The evolution of disease resistance genes. *Plant Molec. Biol.* **42**, 195-204.
- RIEGER, M. A., PRESTON, C. & POWLES, S. B. 1999: Risks of gene flow from transgenic herbicide-resistant canola (*Brassica napus*) to weedy relatives in southern Australian cropping system. *Austr. J. Agric. Res.* **50**, 115-128.
- RIESEBERG, L. H. 2001: Polyploid evolution: Keeping the peace at genomic reunions. *Curr. Biol.* **11**, R925-R928.
- RIESEBERG, L. H., SINEROV, B., LINDER, C. R., UNGERER, M. & ARIAS, D. M. 1996: Role of gene interactions in hybrid speciation: evidence from ancient and experimental hybrids. *Science* **272**, 741-745.
- RIMMER, S. R. & BUCHWALDT, L. 1995: Diseases. In: D. Kimber and D. I. McGregor, (Eds.). *Brassica oilseeds production and utilization*. CAB International, Oxford, UK, 111-140.
- RINGDAHL, E. A., MCVENTTY, P. B. E. & SERNYK, J. L. 1987: Intergeneric hybridization of *Diploptaxis* ssp. with *Brassica napus*: a source of new CMS systems? *Can. J. Plant Sci.* **67**, 239-243.
- RIPLEY, V. L. & ARNISON, P. G. 1990: Hybridization of *Sinapis alba* L. and *Brassica napus* L. via embryo rescue. *Plant Breeding* **104**, 26-33.

- RIPLEY, V., THORPE, M., ILER, S., MIZIER, K. & BEVERS DORF, W.D. 1992: Isozyme analysis as a tool for introgression of *Sinapis alba* germplasm into *Brassica napus*. *Theor. Appl. Genet.* **84**, 403-410.
- RÖBBELEN, G. 1999: Die historische Entwicklung der Pflanzenzüchtung in Deutschland: das Beispiel der Ölpflanze Raps. *Biologie in unserer Zeit* **29**, 132-141.
- ROESSINGH, P., STÄDLER, E., FENWICK, G. R., LEWIS, J. A., NIELSEN, J. K., HURTER, J. & RAMP, T. 1992: Oviposition and tarsal chemoreceptors of the cabbage root fly are stimulated by glucosinolates and host plant extract. *Entomol. Exp. Appl.* **65**, 267-282.
- ROGERS, S. O. & BENDICH, A. J. 1985: Extraction of DNA from milligram amounts of fresh, herbarium and mummified plant tissues. *Plant Mol. Biol.* **5**, 69-76.
- ROTEM, J. 1994: The Genus *Alternaria*: Biology, Epidemiology and Pathogenicity. St Paul, MN, USA: APS press.
- RUSTÉRUCCI, C., AVIV, D. H., HOLT, B. F. I., DANGL, J. L. & PARKER, J. E. 2001: The disease resistance signaling components EDS1 and PAD4 are essential regulators of the cell death pathway controlled by LSD1 in *Arabidopsis*. *Plant Cell* **13**, 2211-2224.
- RYALS, J. A., NEUENSCHWANNER, U. H., WILLITS, M. G., MOLINA, A., STEINER, H. Y. & HUNT, M. D. 1996: Systemic acquired resistance. *Plant Cell* **8**, 1809-1819.
- RYALS, J., UKNES, S. & WARD, E. 1994: Systemic acquired resistance. *Plant Physiol.* **104**, 1109-1112.
- SACRISTÁN, M. D. & GERDEMANN, M. 1986: Different behavior of *Brassica juncea* and *B. carinata* as sources of *Phoma lingam* resistance in experiments of interspecific transfer to *B. napus*. *Plant Breeding* **97**, 304-314.
- SADOWSKI, J., GAUBIER, P., DELSENY, M., QUIROS, C. F. 1996: Genetic and physical mapping in *Brassica* diploid species of a gene cluster defined in *Arabidopsis thaliana*. *Mol. Gen. Genet.* **251**, 298-306.
- SADOWSKI, J. & QUIROS, C. F. 1998: Organization of an *Arabidopsis thaliana* gene cluster on chromosome 4 including the *RPS2* gene in the *Brassica nigra* genome. *Theor. Appl. Genet.* **96**, 468-474.
- SAHIJRAM, L., SONEJI, J. R. & BOLLAMMA, K. T. 2003: Analyzing somaclonal variation in micropropagated bananas (*Musa* spp.) In Vitro Cellular and Developmental Biology - Plant **39**, 551-556.
- SALISBURY, P. 1989: Potential utilization of wild crucifer germplasm in oilseed *Brassica* breeding. Proc. ARAB 7th Workshop, Toowoomba, Queensland, Australia. pp. 51-53.
- SARKAR, B. & SEN GUPTA, P. K. 1978: Studies on some aspects of the epidemiology of *Alternaria* leaf blight of mustard (*Brassica* sp.). *Beitr. Trop. Landwirtsch. Veterinärmed.* **16**, 91-96.
- SCHEEL, D. 1998: Resistance response physiology and signal transduction, *Curr. Opin. Plant Biol.* **1**, 305-310.
- SCHENK, P. M., KAZAN, K., WILSON, I., ANDERSON, J. P., RICHMOND, T., SOMERVILLE, S. C. & MANNERS, J. M. 2000: Coordinated plant defense responses in *Arabidopsis* revealed by microarray analysis. *Proc. Natl. Acad. Sci. USA* **97**, 11655-11660.
- SCHMIDT, T., HESLOP-HARRISON, J. S. 1998: Genomes, genes and junk: the large-scale organization of plant chromosomes. *Trends Plant Sci.* **3**, 195-199.

- SCHOLZE, P. & HAMMER, K. 1998: Evaluation of resistance to *Plasmiodiophora brassicae*, *Alternaria* and *Phoma* in *Brassicaceae*. *Acta Hort.* **459**, 363-368.
- SCHOLZE, P., KRÄMER, R.; MARTHE, F., RYSCHKA, U. KLOCKE, E. & SCHUMANN, G. 2003: Verbesserung der Krankheitsresistenz von Kohlgemüse: 2. Kohlhernie, *Alternaria*- und *Phoma*-Blattfleckenkrankheit. *Gesunde Pflanzen* **55**, 199-204.
- SCHRODER, M., HAHLBROCK, K. & KOMBRINK, E. 1992: Temporal and spatial patterns of 1,3- β -glucanase and chitinase induction in potato leaves infected by *Phytophthora infestans*. *Plant J.* **2**, 161-172.
- SCHUSTER, W. 1992: Ölplanzen in Europa. DLG-Verlags-GmbH, Frankfurt a. M.
- SCHWARZACHER, T. & HESLOP-HARRISON, P. 2000: Practical *in situ* hybridization. BIOS Scientific Publishers Limited, Oxford.
- SCHWEIZER, P., BUCHALA, A. & METRAUX, J. P. 1997: Gene-expression patterns and levels of jasmonic acid in rice treated with the resistance inducer 2,6-dichloroisonicotinic acid. *Plant Physiol.* **115**, 61-70.
- SENIOR, D. P., EPTEN, H. A. S. & TRINCI, A. P. J. 1987: An efficient technique for inducing profuse sporulation of *Alternaria brassicae* in culture. *Trans. Br. Mycol. Soc.* **89**, 244-246.
- SHARMA, G., KUMAR, V. D., HAQUE, A., BHAT, S. R., PRAKASH, S. & CHOPRA, V. L. 2002: *Brassica* coenospecies: a rich reservoir for genetic resistance to leaf spot caused by *Alternaria brassicae*. *Euphytica* **125**, 411-417.
- SHARMA, T. R. & SINGH, B. M. 1992: Transfer of resistance to *Alternaria brassicae* in *Brassica juncea* through interspecific hybridization among *Brassica*. *J. Genet. Breed.* **46**, 373-378.
- SHARP, J. K., VALENT, B. & ALBERSHEIM, P. 1984: Purification and partial characterization of a β -glucan fragment that elicits phytoalexin accumulation in soybean. *J. Biol. Chem.* **259**, 11312-11320.
- SHARPE, A. G., PARKIN, I. A. P., KEITH, D. J. & LYDIATE, D. J. 1995: Frequent non-reciprocal translocations in the amphidiploid genome of oilseed rape (*Brassica napus*). *Genome* **38**, 1112-1121.
- SHOLTENS-TOMA, I. M. J. & DE WIT, P. J. G. M. 1988: Purification and primary structure of a necrosis inducing peptide from apoplastic fluids of tomato infected with *Cladosporium fulvum* (syn. *Fulvia fulva*). *Physiol. Mol. Plant. Pathol.* **33**, 59-67.
- SHRESTHA, S. K., MATHUR, S. B. & MUNK, L. 2000: *Alternaria brassicae* in seeds of rapeseed and mustard, its location in seeds, transmission from seeds to seedlings and control. *Seed Science & Technology* **28**, 75-84.
- SHULL, G. H. 1908: The composition of a field of maize. *Am. Breeders Assoc. Rep.* **4**, 296-301.
- SIGAREVA, M. A. & EARLE, E. D. 1999: Camalexin induction in intertribal somatic hybrids between *Camelina sativa* and rapid cycling *Brassica oleracea*. *Theor. Appl. Genet.* **98**, 164-170.
- SJÖDIN, C. 1992: *Brassicaceae*, a plant family well suited for modern biotechnology. *Acta Agric. Scandinavica Section B, Soil Plant Sci.* **42**, 197-207.
- SNOWDON, R. J., KÖHLER, A., KÖHLER, W. & FRIEDT, W. 1999: FISHing for new rapeseed lines: the application of molecular cytogenetic techniques to *Brassica* breeding. In: N. Wratten and P. Salisbury (Eds.). *Proc. 10th Int. Rapeseed Congr.*, Canberra, Australia.
- SNOWDON, R. J., KÖHLER, W., FRIEDT, W. & KÖHLER, A. 1997: Genomic *in situ* hybridization in *Brassica* amphidiploids and interspecific hybrids. *Theor. Appl. Genet.* **95**, 1320-1324.

- SONG, K. M., OSBORN, T. C. & WILLIAMS, P. H. 1988: *Brassica* taxonomy based on nuclear restriction fragment length polymorphisms (RFLPs) 1. Genome evolution of diploid and amphidiploid species. *Theor. Appl. Genet.* **75**, 784-794.
- SONG, K., OSBORN, T. C. 1992: Polyphyletic origins of *Brassica napus*: new evidence based on organelle and nuclear RFLP analyses. *Genome* **35**, 992-1001.
- SONG, K. M., OSBORN, T. C. & WILLIAMS, P. H. 1990: *Brassica* taxonomy based on nuclear restriction fragment length polymorphisms (RFLPs) 3. Genome relationships in *Brassica* and related genera and the origin of *B. oleracea* and *B. rapa* (syn. *campestris*). *Theor. Appl. Genet.* **76**, 497-506.
- SOROKA, J., GUGEL, R., ELLIOTT, R., RAKOW, G. & RANEY, J. P. 2003: Resistance of crucifer species to insect pests. Proc. 11th Int. Rapeseed Congr. (Copenhagen, Denmark) **3**, pp 1031-1033.
- SPAHL, T. & DEICHMANN, T. 2001: Das populäre Lexikon der Gentechnik. Überraschende Fakten von Allergie über Killerkartoffeln bis Zelltherapie. Eichborn, Frankfurt am Main.
- SPECHT 2005: High yields of winter oilseed rape in Germany 2004. In: CGIRC Bulletin 21 * 2004 (online reference: <http://195.101.239.21/publications/B21/vingtuntableofcontents.htm>).
- SRINIVASAN, K., MALATHI, V. G., KIRTI, P. B., PRAKASH, S. & CHOPRA, V. L. 1998: Generation and characterisation of monosomic chromosome addition lines of *Brassica campestris*-*B. oxyrrhina*. *Theor. Appl. Genet.* **97**, 976-981.
- STALKER, H. T. 1980: Utilization of wild species for crop improvement. *Adv. Agron.* **33**, 111-147.
- STOKES, T. L., KUNKEL, B. N. & RICHARDS, E. J. 2002: Epigenetic variation in *Arabidopsis* disease resistance. *Genes Dev.* **16**, 171-182.
- STRUSS, D., QUIROS, C. F., PLIESKE, J. & RÖBBELEN, G. 1996: Construction of *Brassica* B genome synteny groups based on chromosomes extracted from three different sources by phenotypic, isozyme and molecular markers. *Theor. Appl. Genet.* **93**, 1026-1032.
- TAI, T. H., DAHLBECK, D., CLARK, E. T., GAJIWALA, P., PASION, R., WHALEN, M. C., STALL, R. E. & STASKAWICZ, B. J. 1999: Expression of the *Bs2* pepper gene confers resistance to bacterial spot disease in tomato. *Proc. Natl. Acad. Sci. USA* **96**, 14153-14158.
- TAKAHATA, Y. 1990: Production of intergeneric hybrids between a C3-C4 intermediate species *Moricandia arvensis* and a C3 species *Brassica oleracea* through ovary culture. *Euphytica* **46**, 259-264.
- TAKAHATA, Y. & TAKEDA, T. 1990: Intergeneric (intersubtribe) hybridization between *Moricandia arvensis* and *Brassica* A and *Brassica* B genome species by ovary culture. *Theor. Appl. Genet.* **80**, 38-42.
- TANG, X., XIE, M., KIM, Y. J., ZHOU, J., KLESSIG, D. F. & MARTIN, G. B. 1999: Overexpression of *Pto* activates defense responses and confers broad resistance. *Plant Cell* **11**, 15-29.
- TAVENIER, E., WENDEHENNE, D., BLEIN, J.-P. & PUIGIN, A. 1995: Involvement of free calcium in action of cryptogein, a proteinaceous elicitor of hypersensitive reaction in tobacco cells. *Plant Physiol.* **109**, 1025-1031.
- TEWARI, J. P. 1983: Cellular alterations in the blackspot of rapeseed caused by *Alternaria brassicae*. *Phytopathol.* **73**, 831.
- TEWARI, J. P. 1991: Structural and biochemical bases of the black spot diseases of crucifers. *Adv. Struc. Biol.* **1**, 25-34.

- TEWARI, J. P. & CONN, K. L. 1993: Reactions of some wild crucifers to *Alternaria brassicae*. IOBC/WPRS Bull. **16**, 53-58.
- TEWARI, J. P., CONN, K. L. & DAHIYA, J. 1987: Resistance to *Alternaria brassicae* in crucifers. Proc. 7th Int. Rapeseed Conf., Poznan **5**, 1085-1090.
- TEWARI J. P. & MITHEN R. F. 1999: Diseases. In: C. Gómez-Campo (Ed.). Biology of *Brassica* Coconspecies. Elsevier, Amsterdam, pp. 375-412.
- THOMMA, B. P. H. J., EGGERMONT, K., PENNINCKX, I. A. M. A., MAUCH-MANI, B., VOGELSANG, R., CAMMUE, B. P. A., & BROEKAERT, W. F. 1998: Separate jasmonate-dependent and salicylate-dependent defense-response pathways in *Arabidopsis* are essential for resistance to distinct microbial pathogens. Proc. Natl. Acad. Sci. USA **95**, 15107-15111.
- THOMMA, B. P. H. J., EGGERMONT, K., TIERENS, K. F. M. J., BROEKAERT, W. F. 1999a: Requirement of functional ethylene-insensitive 2 gene for efficient resistance of *Arabidopsis* to infection by *Botrytis cinerea*. Plant Physiol. **121**, 1093-1101.
- THOMMA, B. P. H. J., NELISSEN, I., EGGERMONT, K., & BROEKAERT, W. F. 1999b: Deficiency in phytoalexin production causes enhanced susceptibility of *Arabidopsis thaliana* to the fungus *Alternaria brassicicola*. Plant J. **19**, 163-171.
- THOMPSON, K. F. 1963: Resistance to the cabbage aphid (*Brevicoryne brassicae*) in *Brassica* plants. Nature **198**, 209.
- TÖR, M., GORDON, P., CUZICK, A., EULGEM, T., SINAPIDOU, E., MERT-TURK, F., CAN, C., DANGL, J. L. & HOLUB, E. B. 2002: *Arabidopsis* SGT1b is required for defense signalling conferred by several downy mildew resistance genes. Plant Cell **14**, 993-1003.
- TSUKAMATO, C., FURUYA, M., CHIKAYASU, K., OKUBO, K. & HINATA, K. 1993: Chemotaxonomic markers in *Brassica* seeds at the species and subspecies levels. Biosci. Biotechnol. Biochem. **57**, 653-654.
- U, N. 1935: Genomic analysis of *Brassica* with special reference to the experimental formation of *B. napus* and peculiar mode of fertilization. Jpn. J. Bot. **7**, 389-452.
- VAN DER BIEZEN, E. A. & JONES, J. D. G. 1998: Plant disease-resistance proteins and the gene-for-gene concept. Trends Biochem. Sci. **12**, 454-456.
- VANDERPLANK, J. E. 1968: Disease resistance in plants. Academic press, Inc., London.
- VANDERPLANK, J. E. 1978: Genetic and Molecular Basis of Plant Pathogenesis. Springer-Verl., Berlin.
- VAN LOON, L. C. & VAN STRIEN, E. A. 1999: The families of pathogenesis-related proteins, their activities, and comparative analysis of PR-1 type proteins. Physiol. Mol. Plant Pathol. **55**, 85-97.
- VAN LOON, L. C., PIERPOINT, W. S., BOLLER, T. & CONEJERO, V. 1994: Recommendations for naming plant pathogenesis-related proteins. Plant Mol. Biol. Rep. **12**, 245-264.
- VAN PARIJS, J., BROEKAERT, W. F., GOLDSTEIN, I. J. & PEUMANS, W. J. 1991: Hevein: an antifungal protein from rubber-tree (*Hevea brasiliensis*) latex. Planta **183**, 258-264.
- VAN TUYL, J. M. & LIM, K.-B. 2003: Interspecific hybridisation and polyploidisation as tools in ornamental plant breeding. Acta Hort. **612**, 13-22.
- VAN WEES, S. C. M., CHANG, H.-S., ZHU, T., GLAZEBROOK, J. 2003: Characterization of the early response of *Arabidopsis* to *Alternaria brassicicola* infection using expression profiling. Plant Physiology **132**, 606-617.

- VELASCO, L., GOFFMAN, F. D. & BECKER, H. C. 1998: Variability for the fatty acid composition of the seed oil in a germplasm collection of the genus *Brassica*. Genetic Resources & Crop Evolution. **45**, 371-382.
- VYAS, P., PRAKASH, S. & SHIVANNA, K. R. 1995: Production of wide hybrids and backcross progenies between *Diplotaxis erucoides* and crop *Brassicas*. Theor. Appl. Genet. **90**, 549-553.
- WAARA, S. & GLIMELIUS, K. 1995: The potential of somatic hybridization in crop breeding. Euphytica **85**, 217-233.
- WANG, W. C., MENON, G. & HANSEN, G. 2003: Development of a novel *Agrobacterium*-mediated transformation method to recover transgenic *Brassica napus* plants. Plant Cell Reports. **22**, 274-281.
- WARD, E., UKNES, S., WILLIAMS, S., DINCHER, S., WIEDERHOLD, D., ALEXANDER, D., AHL-GOY P., METRAUX J. P., RYALS J. 1991: Coordinate gene activity in response to agents that induce systemic acquired resistance. Plant Cell **3**, 1085-1094.
- WARWICK, S. I. & BLACK, L. D. 1991: Molecular systematics of *Brassica* and allied genera (Subtribe *Brassicinae*, *Brassicaceae*) - Chloroplast genome and cytodeme congruence. Theor. Appl. Genet. **82**, 81-92.
- WARWICK, S. I. & BLACK, L. D. 1993: Guide to the Wild Germplasm of *Brassica* and Allied Crops, Part III: Interspecific and Intergeneric Hybridization in the Tribe *Brassicaceae* (*Cruciferae*). Technical Bull. 1993-16E, Centre Land and Biological Resources Research, Agriculture Canada.
- WARWICK, S. I. & BLACK, L. D. 1996: Phylogenetic implications of chloroplast DNA restriction site variation in subtribes Raphaninae and Cakilinae (*Brassicaceae*, tribe *Brassicaceae*). Can. J. Bot. **75**, 960-973.
- WARWICK, S. I. 1993: Wild species in the tribe *Brassicaceae* (*Cruciferae*) as sources of agronomic traits. Part IV In: Guide to the Wild Germplasm of *Brassica* and Allied Crops. Technical Bull. 1993 - 17E, Centre Land and Biological Resources Research, Agriculture Canada, 1-19.
- WESTMAN, A. L., KRESOVICH, S. & DICKSON, M. H. 1999: Regional variation in *Brassica nigra* and other weedy crucifers for disease reaction to *Alternaria brassicicola* and *Xanthomonas campestris* pv. *campestris*. Euphytica **106**, 253-259.
- WILLIAMS, J. G. K., KUBELIK, A. R., LIVAK, K. J., RAFALSKI, J. A. & TINGEY, S. V. 1990: DNA polymorphism amplified by arbitrary primers are useful as genetic markers. Nucleic Acids Res. **18**, 6531-6535.
- WINTER 2004: Untersuchungen zur Introgression von Resistenzen gegen die Wurzelhals- und Stengelfäule [*Leptosphaeria maculans* (Desm.) Ces. et De Not.] aus verwandten Arten in den Raps (*Brassica napus* L.). Diss., Freie Universität Berlin, 163 Seiten.
- WOLPERT, T. J., DUNKLE, L. D. & CIUFFETTI, L. M. 2002: Host-selective toxins and avirulence determinants: what's in a name? Annu. Rev. Phytopathol. **40**, 251-285.
- XIAO, S., ELLWOOD, S., CALIS, O., PATRICK, E., LI, T., COLEMAN, M. & TURNER, J. G. 2001: Broad-spectrum mildew resistance in *Arabidopsis thaliana* mediated by RPW8. Science **291**, 118-120.
- YANG, K.-Y., LIU, Y. & ZHANG, S. 2001: Activation of a mitogen activated protein kinase pathway is involved in disease resistance in tobacco. Proc. Natl. Acad. Sci. USA **98**, 741-746.
- YANG, J. & VERMA, P. R. 1992: Screening genotypes for resistance to pre-emergence damping-off and postemergence seedling root rot of oilseed rape and canola caused by *Rhizoctonia solani* AG-2-1. Crop Protection **11**, 443-448.

YAO, C. & KÖLLER, W. 1994: Diversity of cutinases from plant pathogenic fungi: Cloning and sequence analysis of a cutinase gene from *Alternaria brassicicola*. *Physiol. Mol. Plant Pathol.* **44**, 81-92.

ZHAO, J., WILLIAMS, C. C. & LAST, R. L. 1998: Induction of *Arabidopsis* tryptophan pathway enzymes and camalexin by amino acid starvation, oxidative stress, and an abiotic elicitor. *Plant Cell*, **10**, 359-370.

ZHOU, N., TOOTLE, T. L., TSUI, F., KLESSIG, D. F. & GLAZEBROOK, J. 1998: PAD4 functions upstream from salicylic acid to control defense responses in *Arabidopsis*. *Plant Cell* **10**, 1021-1030.

ZHOU, N., TOOTLE, T. L. & GLAZEBROOK, J. 1999: *Arabidopsis PAD3*, a gene required for camalexin biosynthesis, encodes a putative cytochrome P450 monooxygenase. *Plant Cell* **11**, 2419-2428.