CURRICULUM VITAE

Barbara Hohn

Nationality:	Austrian
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Education:	Studies in Vienna and Tübingen
	Thesis on "Physiology and genetics of a cistron of the bacteriophage fd"; Max-Planck-Institut für Virusforschung, Tübingen (Prof. Friedrich Freksa)
1967 (spring)	Ph.D. (Biochemistry)
1967 - 1968	Continuation of the work on bacteriophage fd in Tübingen and at the Yale University, Department of Molecular Biophysics (Dr. Don Marvin)
1968 - 1970	Studies on the replication of episomes at Stanford University, Medical School (Dr. D. Korn)
1971 - 1977	Studies on the morphogenesis of phage lambda, with a special interest in theory and application of DNA packaging; Biozentrum of the Basel University
1978 - now	Studies on gene expression of pro- and eukaryotic organisms; development of cloning techniques; plant transformation; gene regulation in plants; genetic flux in plants; Friedrich Miescher-Institut, Basel
1989	Lecturer (Privatdozent) for Molecular Genetics of Plants at the Basel University
1996	Professor (Extraordinariat) for Plant Molecular Biology

Memberships, Honors

1977	EMBO Lectureship
1980	EMBO Member

1988	Founding Member of Academia Europaea
1991-1997	Member of the Swiss National Research Council
1992	Wissenschaftspreis der Stadt Basel
1993	Gutachten für den Forschungsschwerpunkt S-60 Plant Molecular Biology, Förderung der Wissenschaftlichen Forschung, Wien
1993	Member of Review Committee for Fellowships, Human Frontier Science Program (Strasbourg)
1993-1996	Board of Directors of the International Society for Plant Molecular Biology
1996	Evaluator of EC project proposals
1996	EMBO Evaluation of Molecular Biology and Biotechnology in Finland

Participation as teacher in EMBO Courses

1976	Basel; DNA restriction endonucleases: Reactions and applications (Organizer: W. Arber)
1977	Paris; Laboratory course on genetic engineering (Organizer: G. Bernardi)
1978	Basel; Laboratory course on combination, propagation and analysis of DNA molecules (Organizer: W. Arber)
1979	Paris; Laboratory course on recombinant DNA (Organizer: G. Bernardi)
1980	Basel; Laboratory course on molecular and general genetics of yeast (Organizers: A. Hinnen and F. Lacroute)
1980	Basel; EMBO cosmid cloning course (Organizer: B. Hohn)
1981	Heidelberg; EMBO Course on molecular cloning and gene expression (Organizer: K. Murray)

Numerous courses since then.

Participation as teacher in non-EMBO courses

1981	Varanasi (India); Intl. laboratory course on recombinant DNA techniques (Organizers: M. Chakravorty, A. Bukhari et al.)
1981	Faisalabad (Pakistan); Course on recombinant DNA techniques (Organizer: S. Riazuddin)
1981	Canberra (Australia); Cosmid cloning course (Organizer: B. Hohn)
1982	Basel; SKMB Course on advanced genetic engineering (organized with T. Hohn)
1983	Varanasi (India); Indian Laboratory course on recombinant DNA techniques (Organizer: M. Chakravorty)
1989	Berlin; Intl. Summer School on the molecular genetics of differentiation (Organizer: V.E.A. Russo)

Numerous courses since then.

Publications (refereed)

Morphogenesis of RNA-Bacteriophages

Th. Hohn and B. Hohn: Structure and assembly of simple RNA bacteriophages. Advances in Virus Res. 16, 43 (1970)

Filamentous Bacteriophages

Thesis: Physiologie und Genetik eines Cistrons des Bacteriophagen fd. Tübingen, 1967 (B. Hohn)

D.A. Marvin und B. Hohn: Filamentous bacterial viruses. Bacteriol. Reviews 33, 173 (1969)

B. Hohn, H. Lechner and D.A. Marvin: Filamentous bacterial viruses I; DNA synthesis during the early stages of infection with fd. J. Mol. Biol. 56, 143-154 (1971)

B. Hohn, H. von Schütz and D.A. Marvin: Filamentous bacterial viruses II; Killing of bacteria by abortive infection with fd. J. Mol. Biol. 56, 155-165 (1971)

B.Y. Tseng, B. Hohn and D.A. Marvin: Filamentous bacterial viruses IV; Fate of the infecting parental single-stranded deoxyribonucleic acid. J. Vir. 10, 362-370 (1972)

Bacterial Sex Factors

B. Hohn and D. Korn: Cosegration of a sex factor with the *E. coli* chromosome during curing by acridine orange. J. Mol. Biol. 45, 385 (1969)

B. Hohn and D. Korn: Conditional mutants of *E. coli* affecting the maintenance of plasmids. Intl. Congress for Microbiology, 1970.

Morphogenesis of Bacteriophage

Th. Hohn and B. Hohn: A minor pathway leading to plaque forming particles in bacteriophage lambda. J. Mol. Biol. 79, 649 (1973)

B. Hohn and Th. Hohn: Activity of empty, headlike particles for packaging of lambda DNA *in vitro*. Proc. Natl. Acad. Sci. USA 71, 2372 (1974)

B. Hohn, B. Klein, M. Wurtz, A. Lustig and Th. Hohn: DNA packaging, *in vitro*. J. Supramol. Struct. 2, 302 (1974)

Th. Hohn, H. Flick and B. Hohn: Petit lambda, a family of particles. J. Mol. Biol. 98, 107 (1975)

B. Hohn: DNA as substrate for packaging into bacteriophage lambda, *in vitro*. J. Mol. Biol. 98, 93 (1975)

P. Dawson, B. Hohn, Th. Hohn and A. Skalka: Functional empty capsid precursors produced by a lambda mutant defective for late DNA replication. J. Virol. 17, 576 (1976)

K.G. Lickfeld, B. Menge, B. Hohn and Th. Hohn: Morphogenesis of bacteriophage lambda: Electron microscopy of thin sections. J. Mol. Biol. 103, 299 (1976)

Th. Hohn, M. Wurtz and B. Hohn: Capsid transformation during packaging of bacteriophage lambda DNA. Phil. Trans. Royal Soc. London B. 276, 51 (1976)

C. Georgopoulos and B. Hohn: Identification of a host protein responsible for bacteriophage morphogenesis (gro E.). Proc. Natl. Acad. Sci. USA 75, 131 (1978)

Application of DNA Packaging for Recombinant DNA Research

B. Hohn and K. Murray: Packaging recombinant DNA molecules into bacteriophage particles, *in vitro*. Proc. Natl. Acad. Sci. USA 74, 3259 (1977)

J. Collins and B. Hohn: Cosmids: type of plasmid gene cloning vector that is packageable *in vitro* in bacteriophage lambda heads. Proc. Natl. Acad. Sci. USA 75, 4242 (1978)

R. Lenhard-Schuller, B. Hohn, C. Brack, M. Hirama and S. Tonegawa: DNA clones containing mouse immunoglobulin kappa chain genes isolated by in vitro packaging into phage coats. Proc. Natl. Acad. Sci. USA 75, 4708 (1978)

B. Hohn: *In vitro* packaging of lambda and cosmid DNA. In: Wu, R. (Ed.), Methods in Enzymol., Academic Press, New York, Vol. 68, 299 (1978)

B. Hohn and A. Hinnen: Cloning with cosmids in *E. coli* and yeast. In: Selow, J.K. and Hollaender, A. (Eds.), Genetic Engineering, Principles and Methods, Plenum Press, New York, Vol. 2, 169 (1980)

B. Hohn and J. Collins: A small cosmid for efficient cloning of large DNA fragments. Gene 11, 281 (1980)

A. Honigman, A. Opphenheim, B. Hohn and T. Hohn: Vector plasmids for direct selection of hybrid plasmid. Specified cloning vehicle for isolation of transcriptional termination signals. Gene 13, 289 (1981)

N. Hynes, V. Rahnsdorf, N. Kennedy, P. Herrlich, B. Hohn and B. Groner: DNA mediated transfer and fate of a proviral gene of mouse mammary tumor virus in cultured cells. In: "Proc. IXth Congress of the Intl. Soc. of Devel. Biol.", Basel (Eds. M.M. Burger and R. Weber) pp. 159-171, Alan R. Liss, Inc. (1982)

P.-L. Yu, B. Hohn, H. Falk and G. Drews: Molecular cloning of the ribosomal RNA genes of the photosynthetic bacterium *Rhodopseudomonas capsulata*. Mol. Gen. Genet. 188, 392-398 (1982)

W. Arber, L. Enquist, B. Hohn, K. Murray and N. Murray: Experimental methods for use with lambda. In: "Lambda II", 433- 466, Cold Spring Harbor Laboratory, New York (1983)

B. Hohn: DNA sequences necessary for packaging of bacteriophage DNA. Proc. Natl. Acad. Sci. USA 80, 7456-7460 (1983)

A. Poustka, H.-R. Rackwitz, A.-M. Frischauf, B. Hohn and H. Lehrach: Selective isolation of cosmid clones by homologous recombination in *Escherichia coli*. Proc. Natl. Acad. Sci. USA 81, 4129-4133 (1984)

A. Herrero, J. Elhai, B. Hohn and C.P. Wolk: Infrequent cleavage of cloned *Anabaena variabilis* DNA by restriction endonucleases from *A. variabilis*. J. Bacteriol. 160, 781-784 (1984)

P. Wolk, Y. Cai, L. Cardemil, E. Flores, B. Hohn, M. Murray, G. Schmetterer, B. Schrauemeier, R. Wilson: Isolation and complementation of mutants of *Anabena* sp. PCC7120 unable to grow aerobically on dinitrogen. J. Bacteriol. 170, 1239-1244 (1988)

B. Hohn and J. Collins: Ten years of cosmids. Trends in Biotechnology 6, 293-298 (1988)

B. Hohn, Z. Koukolikova-Nicola, W. Lindenmaier, J. Collins. Cosmids. In: Vectors - A Survey of Molecular Cloning Vectors and their Use (Ed. Rodrigez R., Butterworth, Stoneham, MA), pp. 113-127 (1988)

P. Wolk, Y. Cai, L. Cardemil, E. Flores, B. Hohn, M. Murray, G. Schmetterer, B. Schrauemeier, R. Wilson. Isolation and complementation of mutants of *Anabena* sp. PCC7120 unable to grow aerobically on dinitrogen. J. Bacteriol. 170, 1239-1244 (1988)

Cauliflower Mosaic Virus

T. Hohn, B. Hohn, A. Lesot and G. Lebeurier: Restriction map of native and cloned cauliflower mosaic virus DNA. Gene 11, 21 (1980)

G. Lebeurier, L. Hirth, T. Hohn and B. Hohn: Infectivities of native and cloned DNA of cauliflower mosaic virus. Gene 12, 139- 146 (1980)

B. Hohn and T. Hohn: Cauliflower mosaic virus: A potential vector for plant genetic engineering. In: "Molecular Biology of Plant Tumors" (Eds. G. Kahl and J. Schell) pp. 549-560, Academic Press, Inc., New York (1982)

G. Lebeurier, L. Hirth, B. Hohn and T. Hohn: Recombination of a plant virus (CaMV) *in vivo*. Proc. Natl. Acad. Sci. USA 79, 2932-2936 (1982)

T. Hohn, M. Pietrzak, L. Dixon, I. Koenig, J. Penswick, B. Hohn and P. Pfeiffer: Involvement of reverse transcription in cauliflower mosaic virus replication. In: "Plant Viruses and Viroids", Cold Spring Harbor Laboratory, pp. 28-33 (1983)

T. Hohn, M. Pietrzak, L. Dixon, I. Koenig, J. Penswick, B. Hohn and P. Pfeiffer: Involvement of reverse transcription in cauliflower mosaic virus replication. UCLA Symp. on Mol. and Cell. Biol., New Series, Vol. 12, Plant Mol. Biol., 147-155 (1983)

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B. Hohn, E. Balazs, D. Rüegg and T. Hohn: Splicing of an intervening sequence from hybrid cauliflower mosaic virus DNA. EMBO J. 5, 2759-2762 (1986)

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Plant-Transformation; Gene Regulation in Plants

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Z. Koukolikova-Nicola, R.D. Shillito, B. Hohn, K. Wang, M. Van Montagu and P. Zambryski: Involvement of circular intermediates in the transfer of T-DNA from *Agrobacterium tumefaciens* to plant cells. Nature 31, 191-196 (1985)

J. Paszkowski, B. Pisan, R.D. Shillito, T. Hohn, B. Hohn and I. Potrykus: Genetic transformation of *Brassica rapa* protoplasts with an engineered cauliflower mosaic virus genome. Plant Mol. Biol. 6, 303-312 (1986)

N. Grimsley, T. Hohn, J. Davies and B. Hohn: Transformation of maize plants by *Agrobacterium tumefaciens*. Nature 325, 177-179 (1987)

Z. Koukolikova-Nicola, L. Albright, B. Hohn: The mechanism of T-DNA transfer from *Agrobacterium tumefaciens* to the plant cell. In: "Plant DNA Infectious Agents", Plant Gene Res., Vol. 4, (Eds. T. Hohn and J. Schell) Springer Verlag, Wien, pp. 109-148 (1987)

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B. Hohn, T. Hohn, M. Boulton, J. Davies, N. Grimsley: Agroinfection of *Zea mays* with maize streak virus DNA. NATO Meeting on Plant Mol. Biol., pp. 459-468 (1987)

B. Hohn, T. Hohn, N. Grimsley: Transferimento di geni esogeni in mais. Biotec, 16-17 (1987)

N. Grimsley, C. Ramos, T. Hein, B. Hohn: Meristematic tissues in whole maize plants are the most susceptible to agroinfection with maize streak virus. Biotechnology 6, 185-189 (1988)

N. Grimsley, B. Hohn, C. Ramos, C. Kado and P. Rogowsky: DNA transfer from *Agrobacterium* to *Zea mays* or *Brassica* by agroinfection is dependent on bacterial virulence functions. Mol. Gen. Genet. 217, 309-316 (1989)

B. Hohn, Z. Koukolikova-Nicola, G. Bakkeren and N. Grimsley: *Agrobacterium*-mediated gene transfer to monocots and dicots. Genome 31, 987-993 (1989)

G. Bakkeren, Z. Koukolikova-Nicola, N. Grimsley, B. Hohn: Recovery of *Agrobacterium tumefaciens* T-DNA molecules from whole plants early after transfer. Cell 57, 847-857 (1989)

F. Dürrenberger, A. Crameri, B. Hohn and Z. Koukolikova-Nicola: Covalently bound nVirD2 protein of *Agrobacterium tumefaciens* protects the T-DNA from exonucleolytic degradation. Proc. Natl. Acad. Sci. USA 86, 9154-9158 (1989)

S. Gal and B. Hohn: Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. Nucl. Acids Res. 18, 1076 (1990)

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S. Gal, B. Pisan, T. Hohn, N. Grimsley and B. Hohn: Genomic homologous recombination *in planta*. EMBO J. 10, 1571-1578 (1991)

N. Grimsley, E. Jarchow, J. Oetiker, M. Schläppi and B. Hohn: Agroinfection as a tool for the investigation of plant-pathogen interactions. Plant Mol. Biol. 2, 225-238 (1991)

H. Puchta and B. Hohn: The mechanism of extrachromosomal homologous DNA recombination in plant cells. Mol. Gen. Genet. 230, 1-7 (1991)

H. Puchta and B. Hohn: A transient assay in plant cells reveals a positive correlation between extrachromosomal recombination rates and length of homologous overlap. Nucl. Acids Res. 19, 2693-2700 (1991)

W.-H. Shen and B. Hohn: Mutational analysis of the small intergenic region of maizestreak virus. Virology 83, 721-730 (1991)

E. Jarchow, N.H. Grimsley and B. Hohn: virF, the host-range-determining virulence gene of *Agrobacterium tumefaciens*, affects T-DNA transfer to *Zea mays*. Proc. Natl. Acad. Sci. USA 88, 10426-10430 (1991)

B. Hohn: Exploration of *Agrobacterium tumefaciens*. In: "Development. The Molecular Genetic Approach" (Eds. V.E.A. Russo, S. Brody, D. Cove, S. Ottolenghi), Springer Verlag, Berlin, pp. 206-216 (1992)

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S. Gal, B. Pisan, T. Hohn, N. Grimsley and B. Hohn: Agroinfection of transgenic plants leads to viable cauliflower mosaic virus by intermolecular recombination. Virology 187, 525-533 (1992)

M.A. Riederer, N.H. Grimsley, B. Hohn and J. Jiricny: The mode of cauliflower mosaic virus propagation in the plant allows rapid amplification of viable mutant strains. J. Gen. Virol. 73, 1449- 1456 (1992)

M. Schläppi and B. Hohn: Competence of immature maize embryos for agrobacterium-mediated gene transfer. Plant Cell 4, 7-16 (1992)

M. Schneider, E. Jarchow and B. Hohn: Mutational analysis of the 'conserved region' of maize streak virus suggests its involvement in replication. Plant Mol. Biol. 19, 601-610 (1992)

W.-H. Shen, S. Das and B. Hohn: Mechanism of *Ds1* excision from the genome of maize streak virus. Mol. Gen. Genet. 233, 388-394 (1992)

W.-H. Shen and B. Hohn: DMSO improves PCR amplification of DNA with complex secondary structure. Trends Genet. 8, 227 (1992)

H. Puchta, S. Kocher and B. Hohn: Extrachromosomal homologous DNA recombination in plant cells is fast and is not affected by CpG methylation. Mol. Cell Biol. 12, 3372-3379 (1992)

B. Tinland, Z. Koukolíková-Nicola, M.N. Hall and B. Hohn: The T-DNA linked VirD2 protein contains two distinct functional nuclear localization signals. Proc. Natl. Acad. Sci. USA 89, 7442-7446 (1992)

P. Swoboda, B. Hohn and S. Gal: Somatic homologous recombination *in planta*: The recombination frequency is dependent on the allelic state of recombining sequences and may be influenced by genomic position effects. Mol. Gen. Genet. 237, 33-40 (1993)

Z. Koukolíková-Nicola, D. Raineri, K. Stephens, C. Ramos, B. Tinland, E.W. Nester and B. Hohn: Genetic Analysis of the virD operon of *Agrobacterium tumefaciens*: a search for functions involved in transport of T-DNA into the plant cell nucleus and in T-DNA integration. J. Bacteriol. 175, 723-731 (1993)

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L. Rossi, J. Escudero, B. Hohn and B. Tinland: Efficient assay for T-DNA dependent transient gene expression. Plant. Mol. Biol. Rep. 11: 220-229 (1993)

H. Puchta, B. Dujon and B. Hohn: Homologous recombination in plant cells is enhanced by *in vivo* induction of double strand breaks into DNA by a site-specific endonuclease. Nucleic Acids Res. 21: 5034-5040 (1993)

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P. Swoboda, S. Gal, B. Hohn and H. Puchta: Intrachromosomal homologous recombination in whole plants. EMBO J. 13: 484-489 (1994)

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