

7. Der Habilitation zugrunde liegende Veröffentlichungen

7.1. Übersichtsartikel

- [1] **Puchta H.**, Swoboda P. and Hohn B. (1994) Homologous recombination in plants. *Experientia* **50**, 277-284.
- [2] **Puchta H.** and Meyer P. (1994) Substrate specificity of plant recombinases determined in extrachromosomal recombination systems. In "Homologous recombination and gene silencing in plants", J. Paszkowski Edt., Kluwer Academic Publishers, Dordrecht, Netherlands, 123-155.
- [3] **Puchta H.** and Hohn B. (1996) From centiMorgans to basepairs: Homologous recombination in plants. *Trends in Plant Sci.* **1**, 340-348.
- [4] **Puchta H.** (1998) Towards targeted transformation in plants. *Trends in Plant Sci.* **3**, 77-78.
- [5] **Puchta H.** (1999) Doppelstrangbruchreparatur und Genomevolution bei Pflanzen. *Biospektrum* **5**, 105-108.
- [6] **Puchta H.** (1999) Use of I-SceI to induce double-strand breaks in *Nicotiana*. In "DNA Repair Protocols: Eukaryotic Systems", Methods in Molecular Biology, D.S. Henderson Edt., Humana Press, New Jersey, 447-451.
- [7] Hohn B. and **Puchta H.** (1999) Gene therapy in plants. *Proc. Natl. Acad. Sci. USA* **96**, 8321-8323.

7.2. Wissenschaftliche Publikationen in referierten Zeitschriften

7.2.1. Extrachromosomale Rekombination

- [8] **Puchta H.** and Hohn B. (1991) A transient assay in plant cells reveals a positive correlation between extrachromosomal recombination rates and length of homologous overlap. *Nucleic Acids Res.* **19**, 2693-2700.
- [9] **Puchta H.** and Hohn B. (1991) The mechanism of extrachromosomal homologous DNA recombination in plant cells. *Mol. Gen. Genet.* **230**, 1-7.
- [10] **Puchta H.**, Kocher S. and Hohn B. (1992) Extrachromosomal homologous DNA recombination in plant cells is fast and is not affected by CpG methylation. *Mol. Cell. Biol.* **12**, 3372-3379.
- [11] Tinland B., Hohn B. and **Puchta H.** (1994) *Agrobacterium tumefaciens* transfers single stranded T-DNA into the plant cell nucleus. *Proc. Natl. Acad. Sci. USA* **91**, 8000-8004.

7.2.2. Intrachromosomale Rekombination

- [12] Swoboda P., Gal S., Hohn B. and **Puchta H.** (1994) Intrachromosomal homologous recombination in whole plants. *EMBO J.* **13**, 484-489.
- [13] **Puchta H.**, Swoboda P. and Hohn B. (1995) Induction of intrachromosomal homologous recombination in whole plants. *Plant J.* **7**, 203-210.
- [14] **Puchta H.**, Swoboda P., Gal S., Blot M. and Hohn B. (1995) Somatic intrachromosomal homologous recombination events in populations of plant siblings. *Plant Mol. Biol.*, **28**, 281-292.

7.2.3. Doppelstrangbruchreparatur

- [15] **Puchta H.**, Dujon B. and Hohn B. (1993) 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.
- [16] **Puchta H.**, Dujon B. and Hohn B. (1996) Two different but related mechanisms are used in plants for the repair of genomic double-strand breaks by homologous recombination. *Proc. Natl. Acad. Sci. USA* **93**, 5055-5060.
- [17] **Puchta H.** (1998) Repair of genomic double-strand breaks in somatic plant cells by one-sided invasion of homologous sequences. *Plant J.* **13**, 331-339.
- [18] Salomon S. and **Puchta H.** (1998) Capture of genomic and T-DNA sequences during double-strand break repair in somatic plant cells. *EMBO J.* **17**, 6086-6095.
- [19] **Puchta H.** (1999) Double-strand break-induced recombination between ectopic homologous sequences in somatic plant cells. *Genetics* **152**, 1173-1181.

Aus Gründen der Urheberrechts können die Publikationen hier nur zitiert werden.