

***Podospora anserina* bibliography n° 10 - Additions**

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Podospora anserina is a coprophilous fungus growing on herbivore dung. It is a pseudohomothallic species in which ascus development results, as in *Neurospora tetrasperma* but through a different process, in the formation of four large ascospores containing nuclei of both mating types. These ascospores give self-fertile strains. Small uninucleate ascospores are also formed at a frequency *circa* 1 %; these provide homokaryotic strains. The ease of genetic analysis and culture of this Euascomycete, as well as its short sexual cycle (four days from mating to ascospore projection), have attracted many European geneticists since the seminal work of Georges Rizet (references below).

Podospora bibliographies were compiled by Karl Esser and published in *Neurospora* Newsletter number 18, June 1971; number 20, June 1973; number 24, June 1977; number 26, June 1979; number 27, June 1980; number 28, June 1981, number 29, June 1982, number 31, June 1984 and in *Fungal Genetics Newsletter* number 33, June 1986 and number 35, June 1988. Two hundred and eighty five publications are listed in this *Podospora* bibliography n° 10. In addition to the papers published since the *Podospora* bibliography n° 9, these include all theses since that of Georges Rizet in 1943. RD is grateful to the whole *Podospora* community who have collaborated in compiling this bibliography.

1. Albert, B., and C. H. Sellem. 2002. Dynamics of the mitochondrial genome during *Podospora anserina* aging. *Curr Genet.* **40**:365-373.
2. Arnaise, S., R. Debuchy, and M. Picard. 1997. What is a *bona fide* mating-type gene? Internuclear complementation of *mat* mutants in *Podospora anserina*. *Mol Gen Genet.* **256**:169-178.
3. Arnaise, S., D. Zickler, and N. L. Glass. 1993. Heterologous expression of mating-type genes in filamentous fungi. *Proc Natl Acad Sci U S A.* **90**:6616-6620.
4. Arnaise, S., D. Zickler, S. Le Bilot, C. Poisier, and R. Debuchy. 2001. Mutations in mating-type genes of the heterothallic fungus *Podospora anserina* lead to self-fertility. *Genetics.* **159**:545-556.
5. Arnaise, S., D. Zickler, C. Poisier, and R. Debuchy. 2001. *pah1*: a homeobox gene involved in hyphal morphology and microconidiogenesis in the filamentous ascomycete *Podospora anserina*. *Mol Microbiol.* **39**:54-64.
6. Averbek, N. 1999. Molekulare Grundlagen der Kupferhomöostase in dem Ascomyceten *Podospora anserina*. Dissertation, Logos, Berlin.
7. Averbek, N. B., C. Borghouts, A. Hamann, V. Specke, and H. D. Osiewacz. 2001. Molecular control of copper homeostasis in filamentous fungi: increased expression of a metallothionein gene during aging of *Podospora anserina*. *Mol Gen Genet.* **264**:604-612.
8. Averbek, N. B., O. N. Jensen, M. Mann, H. Schägger, and H. D. Osiewacz. 2000. Identification and characterization of PaMTH1, a putative O- methyltransferase accumulating during senescence of *Podospora anserina* cultures. *Curr Genet.* **37**:200-208.
9. Balguerie, A., S. Dos Reis, C. Ritter, S. Chaignepain, B. Couлары-Salin, V. Forge, K. Bathany, I. Lascu, J. M. Schmitter, R. Riek, and S. J. Saupe. 2003. Domain organization and structure-function relationship of the HET-s prion protein of *Podospora anserina*. *EMBO J.* **22**:2071-2081.
10. Barreau, C. 1983. Etude des RNA polymérase chez le *Podospora* : purification, structure des 3 enzymes et préparation d'une collection d'anticorps monoclonaux spécifiques de l'enzyme B. Doctorat d'Etat, Université Bordeaux 2, accession number 42, 136 p.
11. Barreau, C., M. Iskandar, G. Loubradou, V. Levallois, and J. Bégueret. 1998. The mod-A suppressor of nonallelic heterokaryon incompatibility in *Podospora anserina* encodes a proline-rich polypeptide involved in female organ formation. *Genetics.* **149**:915-926.
12. Barreau, C., M. Iskandar, B. Turcq, and J. P. Javerzat. 1998. Use of a linear plasmid containing telomeres as an efficient vector for direct cloning in the filamentous fungus *Podospora anserina*. *Fungal Genet Biol.* **25**:22-30.
13. Barreau, C., C. Sellem, P. Silar, A. Sainsard-Chanet, and B. Turcq. 2002. A rapid and efficient method using chromoslots to assign any newly cloned DNA sequence to its cognate chromosome in the filamentous fungus *Podospora anserina*. *FEMS Microbiol Lett.* **216**:55-60.
14. Begel, O., J. Boulay, B. Albert, E. Dufour, and A. Sainsard-Chanet. 1999. Mitochondrial group II introns, cytochrome c oxidase, and senescence in *Podospora anserina*. *Mol Cell Biol.* **19**:4093-4100.
15. Bégueret, J. 1973. L'incompatibilité cellulaire chez le champignon *Podospora anserina* : Etude physiologique de la réaction. Doctorat d'Etat, Université Bordeaux 2, 73 p.
16. Bégueret, J., B. Turcq, V. Razanamparany, M. Perrière, M. Denayrolles, T. Berges, M. Perrot, J. P. Javerzat, and C. Barreau. 1989. Development and use of vectors for *Podospora anserina*. In *Proceeding of the EMBO-Alko Workshop on Molecular Biology of Filamentous Fungi*. H. Nevalainen, and M. Penttillä, eds. v. 6. Foundation for Biotechnical and Industrial Fermentation research. p. 41-49.
17. Beisson-Schecroun, J. 1962. Incompatibilité cellulaire et interactions nucléo-cytoplasmiques dans les phénomènes de "barrage" chez le "*Podospora anserina*". Doctorat d'Etat, Université de Paris, centre d'Orsay.
18. Belcour, L. 1986. Sénescence et mitochondrie. Doctorat d'Etat, Université Paris-Sud.
19. Belcour, L., O. Begel, and M. Picard. 1991. A site-specific deletion in mitochondrial DNA of *Podospora* is under the control of nuclear genes. *Proc Natl Acad Sci U S A.* **88**:3579-3583.
20. Belcour, L., M. Dequard-Chablat, and M. Picard. 1991. Délétion site-spécifique de l'ADN mitochondrial sous le contrôle de deux gènes nucléaires. *Médecine/Sciences.* **7**:628-629.
21. Belcour, L., M. Rossignol, F. Koll, C. H. Sellem, and C. Oldani. 1997. Plasticity of the mitochondrial genome in

- Podospora*. Polymorphism for 15 optional sequences: group-I, group-II introns, intronic ORFs and an intergenic region. *Curr Genet.* **31**:308-317.
22. Belcour, L., A. Sainsard-Chanet, C. Jamet-Vierny, and M. Picard. 1999. Stability of the mitochondrial genome in *Podospora anserina* and its genetic control. In *Mitochondrial diseases: models and methods*. P. Lestienne, ed. Springer-Verlag, p. 209-228.
23. Bennoun-Picard, M. 1973. Mise en évidence d'une unité de transcription polygénique et de supprimeurs informationnels chez l'ascomycète *Podospora anserina* : analyse génétique. Doctorat d'Etat, Paris-Sud, 159 p.
24. Berges, T., and C. Barreau. 1989. Heat shock at an elevated temperature improves transformation efficiency of protoplasts from *Podospora anserina*. *J Gen Microbiol.* **135**:601-604.
25. Bernet, J. 1965. Mode d'action des gènes de "barrage" et relation entre l'incompatibilité cellulaire et l'incompatibilité sexuelle chez *Podospora anserina*. Doctorat d'Etat, Université de Paris.
26. Bernet, J. 1988. *Podospora* growth control mutations inhibit apical cell anastomosis and protoperithecium formation. *Exp Mycol.* **12**:217-222.
27. Bernet, J. 1991. Aerial organs and cell death in *Podospora anserina* mutants: relationship with protoplasmic incompatibility. *Exp Mycol.* **15**:215-222.
28. Bernet, J. 1992. A gene suppressing the allelic protoplasmic incompatibility specified by genes at five different loci in *Podospora anserina*. *J Gen Microbiol.* **138**:2567-2574.
29. Bernet, J. 1992. In *Podospora anserina*, protoplasmic incompatibility genes are involved in cell death control via multiple gene interactions. *Heredity.* **68**:79-87.
30. Berteaux-Lecellier, V. 1995. Clonage et analyse de deux gènes intervenant dans le développement précoce des fructifications chez *Podospora anserina* : identification du premier homologue non mammalien du gène *PAF1* (syndrome de Zellweger). Doctorat d'Université, Université-Paris-Sud, accession number 3775, 206 p.
31. Berteaux-Lecellier, V., M. Picard, C. Thompson-Coffe, D. Zickler, A. Panvier-Adoutte, and J. M. Simonet. 1995. A nonmammalian homolog of the *PAF1* gene (Zellweger syndrome) discovered as a gene involved in caryogamy in the fungus *Podospora anserina*. *Cell.* **81**:1043-1051.
32. Berteaux-Lecellier, V., D. Zickler, R. Debuchy, A. Panvier-Adoutte, C. Thompson-Coffe, and M. Picard. 1998. A homologue of the yeast *SHE4* gene is essential for the transition between the syncytial and cellular stages during sexual reproduction of the fungus *Podospora anserina*. *EMBO J.* **17**:1248-1258.
33. Boissnard, S. 2003. Identification et rôle des transporteurs ABC peroxysomaux dans le développement sexué du champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, 176 p.
34. Boissnard, S., D. Zickler, M. Picard, and V. Berteaux-Lecellier. 2003. Overexpression of a human and a fungal ABC transporter similarly suppresses the differentiation defects of a fungal peroxisomal mutant but introduces pleiotropic cellular effects. *Mol. Microbiol.* **49**:1287-1296.
35. Borghouts, C. 1999. Mitochondriale-nukleäre Interaktionen als Grundlage von Alterungsprozessen bei dem Ascomyceten *Podospora anserina*. Dissertation, Logos, Berlin.
36. Borghouts, C., S. Kerschner, and H. D. Osiewacz. 2000. Copper-dependence of mitochondrial DNA rearrangements in *Podospora anserina*. *Curr Genet.* **37**:268-275.
37. Borghouts, C., E. Kimpel, and H. D. Osiewacz. 1997. Mitochondrial DNA rearrangements of *Podospora anserina* are under the control of the nuclear gene *grisea*. *Proc Natl Acad Sci U S A.* **94**:10768-10773.
38. Borghouts, C., and H. D. Osiewacz. 1998. GRSEA, a copper-modulated transcription factor from *Podospora anserina* involved in senescence and morphogenesis, is an ortholog of MAC1 in *Saccharomyces cerevisiae*. *Mol Gen Genet.* **260**:492-502.
39. Borghouts, C., and H. D. Osiewacz. 2000. Nuclear-mitochondrial interactions involved in aging in *Podospora anserina*. *Ann N Y Acad Sci.* **908**:291-294.
40. Borghouts, C., C. Q. Scheckhuber, O. Stephan, and H. D. Osiewacz. 2002. Copper homeostasis and aging in the fungal model system *Podospora anserina*: differential expression of *PaCtr3* encoding a copper transporter. *Int J Biochem Cell Biol.* **34**:1355-1371.
41. Borghouts, C., C. Q. Scheckhuber, A. Werner, and H. D. Osiewacz. 2002. Respiration, copper availability and SOD activity in *P. anserina* strains with different lifespan. *Biogerontology.* **3**:143-153.
42. Borghouts, C., A. Werner, T. Elthon, and H. D. Osiewacz. 2001. Copper-modulated gene expression and senescence in the filamentous fungus *Podospora anserina*. *Mol Cell Biol.* **21**:390-399.
43. Boucherie, E. 1979. L'incompatibilité protoplasmique chez le champignon *Podospora anserina* : caractérisation et régulation des variations physiologiques associées, relation avec la différenciation des organes reproducteurs femelles. Doctorat d'Etat, Université Bordeaux 2, accession number 21, 145 p.
44. Bouex, P. 2001. Etudes de protéines impliquées dans le métabolisme de l'ADN mitochondrial du champignon *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.
45. Bouex, P., M. Sabourin, S. Chaignepain, M. Castroviejo, and P. Laquel-Robert. 2002. Purification and characterization of an endo-exonuclease from *Podospora anserina* mitochondria. *Biochim Biophys Acta.* **1574**:72-84.
46. Bourges, N. 1998. Caractérisation de gènes induits durant l'incompatibilité végétative chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2, 132 p.
47. Bourges, N., A. Groppi, C. Barreau, C. Clavé, and J. Béguet. 1998. Regulation of gene expression during the vegetative incompatibility reaction in *Podospora anserina*. Characterization of three induced genes. *Genetics.* **150**:633-641.
48. Contamine, V. 1997. Contrôle nucléaire d'un cas d'instabilité du génome mitochondrial chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, 90 p.
49. Contamine, V., G. Lecellier, L. Belcour, and M. Picard. 1996. Premature death in *Podospora anserina*: sporadic accumulation of the deleted mitochondrial genome, translational parameters and innocuity of the mating types. *Genetics.* **144**:541-555.
50. Contamine, V., and M. Picard. 1998. Escape from Premature Death Due to Nuclear Mutations in *Podospora anserina*:

Repeal versus Respite. *Fungal Genet Biol.* **23**:223-236.

51. Coppin, E. 2002. The *fle1* gene encoding a C2H2 zinc finger protein co-ordinates male and female sexual differentiation in *Podospora anserina*. *Mol Microbiol.* **43**:1255-1268.

52. Coppin, E., S. Arnaise, V. Contamine, and M. Picard. 1993. Deletion of the mating-type sequences in *Podospora anserina* abolishes mating without affecting vegetative functions and sexual differentiation. *Mol Gen Genet.* **241**:409-414.

53. Coppin, E., and R. Debuchy. 2000. Co-expression of the mating-type genes involved in internuclear recognition is lethal in *Podospora anserina*. *Genetics.* **155**:657-669.

54. Coppin, E., R. Debuchy, S. Arnaise, and M. Picard. 1997. Mating types and sexual development in filamentous ascomycetes. *Microbiol Mol Biol Rev.* **61**:411-428.

55. Coppin-Raynal, E. 1982. L'imprécision de la traduction : son contrôle par le ribosome et son rôle biologique chez le champignon *Podospora anserina*. Doctorat d'Etat, Université Paris-Sud, accession number 2650, 285 p.

56. Coppin-Raynal, E., M. Dequard-Chablat, and M. Picard. 1988. Genetics of ribosomes and translational accuracy in *Podospora anserina*. In *Genetics of translation: new approaches*. M. Tuite, M. Picard, and M. Bolotin-Fukuhara, eds. v. H14. Springer-Verlag. p. 431-442.

57. Coppin-Raynal, E., M. Picard, and S. Arnaise. 1989. Transformation by integration in *Podospora anserina*. III. Replacement of a chromosome segment by a two-step process. *Mol Gen Genet.* **219**:270-276.

58. Coustou, V., C. Deleu, S. Saupe, and J. Bégueret. 1997. The protein product of the *het-s* heterokaryon incompatibility gene of the fungus *Podospora anserina* behaves as a prion analog. *Proc Natl Acad Sci U S A.* **94**:9773-9778.

59. Coustou, V., C. Deleu, S. J. Saupe, and J. Bégueret. 1999. Mutational analysis of the [Het-s] prion analog of *Podospora anserina*. A short N-terminal peptide allows prion propagation. *Genetics.* **153**:1629-1640.

60. Coustou-Linares, V. 2000. Un modèle prion : études génétique et fonctionnelle de la protéine HET-s chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.

61. Coustou-Linares, V., M. L. Maddelein, J. Bégueret, and S. J. Saupe. 2001. In vivo aggregation of the HET-s prion protein of the fungus *Podospora anserina*. *Mol Microbiol.* **42**:1325-1335.

62. Crouzet, M. 1984. Etude des mutations ribosomiques chez *Podospora anserina*. Doctorat d'Etat, Université Bordeaux 2, accession number 44, 123 p.

63. Cummings, D. J., and J. M. Domenico. 1988. Sequence analysis of mitochondrial DNA from *Podospora anserina*. Pervasiveness of a class I intron in three separate genes. *J Mol Biol.* **204**:815-839.

64. Cummings, D. J., J. M. Domenico, and F. Michel. 1988. DNA sequence and organization of the mitochondrial ND1 gene from *Podospora anserina*: analysis of alternate splice sites. *Curr Genet.* **14**:253-264.

65. Cummings, D. J., J. M. Domenico, and J. Nelson. 1989. DNA sequence and secondary structures of the large subunit rRNA coding regions and its two class I introns of mitochondrial DNA from *Podospora anserina*. *J Mol Evol.* **28**:242-255.

66. Cummings, D. J., J. M. Domenico, J. Nelson, and M. L. Sogin. 1989. DNA sequence, structure, and phylogenetic relationship of the small subunit rRNA coding region of mitochondrial DNA from *Podospora anserina*. *J Mol Evol.* **28**:232-241.

67. Cummings, D. J., K. L. McNally, J. M. Domenico, and E. T. Matsuura. 1990. The complete DNA sequence of the mitochondrial genome of *Podospora anserina*. *Curr Genet.* **17**:375-402.

68. Cummings, D. J., F. Michel, J. M. Domenico, and K. L. McNally. 1990. DNA sequence analysis of the mitochondrial ND4L-ND5 gene complex from *Podospora anserina*. Duplication of the ND4L gene within its intron. *J Mol Biol.* **212**:269-286.

69. Cummings, D. J., F. Michel, J. M. Domenico, and K. L. McNally. 1990. Mitochondrial DNA sequence analysis of the cytochrome oxidase subunit II gene from *Podospora anserina*. A group IA intron with a putative alternative splice site. *J Mol Biol.* **212**:287-294.

70. Cummings, D. J., F. Michel, and K. L. McNally. 1989. DNA sequence analysis of the 24.5 kilobase pair cytochrome oxidase subunit I mitochondrial gene from *Podospora anserina*: a gene with sixteen introns. *Curr Genet.* **16**:381-406.

71. Cummings, D. J., F. Michel, and K. L. McNally. 1989. DNA sequence analysis of the apocytochrome b gene of *Podospora anserina*: a new family of intronic open reading frame. *Curr Genet.* **16**:407-418.

72. Dalstra, H. J. P., K. Swart, A. J. M. Debets, S. J. Saupe, and R. F. Hoekstra. 2003. Sexual transmission of the [Het-s] prion leads to meiotic drive in *Podospora anserina*. *Proc Natl Acad Sci U S A.* **100**:6616-6621.

73. Debuchy, R. 1987. Mise au point d'un système de transformation du champignon filamenteux *Podospora anserina* et recherche de séquences susceptibles d'assurer l'autonomie de réplication. Doctorat d'Université, Université Paris 6.

74. Debuchy, R. 1999. Internuclear recognition: A possible connection between euascomycetes and homobasidiomycetes. *Fungal Genet Biol.* **27**:218-223.

75. Debuchy, R., S. Arnaise, and G. Lecellier. 1993. The *mat-* allele of *Podospora anserina* contains three regulatory genes required for the development of fertilized female organs. *Mol Gen Genet.* **241**:667-673.

76. Debuchy, R., and E. Coppin. 1992. The mating types of *Podospora anserina*: functional analysis and sequence of the fertilization domains. *Mol Gen Genet.* **233**:113-121.

77. Debuchy, R., E. Coppin-Raynal, D. Le Coze, and Y. Brygoo. 1988. Chromosome walking towards a centromere in the filamentous fungus *Podospora anserina*: cloning of a sequence lethal at a two-copy state. *Curr Genet.* **13**:105-111.

78. Deleu, C. 1993. Analyse moléculaire du locus *het-s* et étude de l'expression des allèles *het-s* et *het-S* responsables d'incompatibilité végétative chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.

79. Deleu, C., C. Clavé, and J. Bégueret. 1993. A single amino acid difference is sufficient to elicit vegetative incompatibility in the fungus *Podospora anserina*. *Genetics.* **135**:45-52.

80. Deleu, C., B. Turcq, and J. Bégueret. 1990. *repa*, a repetitive and dispersed DNA sequence of the filamentous fungus *Podospora anserina*. *Nucleic Acids Res.* **18**:4901-4903.

81. Dementhon, K. 2003. La mort cellulaire par incompatibilité : caractérisation d'un facteur de transcription bZIP induit lors de la réaction d'incompatibilité chez *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.

82. Dementhon, K., M. Paoletti, B. Pinan-Lucarre, N. Loubradou-Bourges, M. Sabourin, S. J. Saupe, and C. Clavé. 2003. Rapamycin Mimics the Incompatibility Reaction in the Fungus *Podospora anserina*. *Eukaryot Cell*. **2**:238-246.
83. Dequard-Chablat, M. 1987. Identification de sept protéines ribosomiques impliquées dans le contrôle de la fidélité de la traduction chez un eucaryote: le champignon *Podospora anserina*. Doctorat d'Etat, Université Paris-Sud, accession number 3278, 246 p.
84. Dequard-Chablat, M. 1991. Translation, oncogenesis and myopathies. *Trends Genet.* **7**:240-241.
85. Dequard-Chablat, M., and C. Alland. 2002. Two copies of *mthmg1*, encoding a novel mitochondrial HMG-like protein, delay accumulation of mitochondrial DNA deletions in *Podospora anserina*. *Eukaryot Cell*. **1**:503-513.
86. Dequard-Chablat, M., and A. Rötig. 1997. Homologous and heterologous expression of a ribosomal protein gene in *Podospora anserina* requires an intron. *Mol Gen Genet.* **253**:546-552.
87. Dequard-Chablat, M., and C. H. Sellem. 1994. The S12 ribosomal protein of *Podospora anserina* belongs to the S19 bacterial family and controls the mitochondrial genome integrity through cytoplasmic translation. *J Biol Chem.* **269**:14951-14956.
88. Dos Reis, S., B. Couлары-Salin, V. Forge, I. Lascu, J. Bégueret, and S. J. Saupe. 2002. The HET-s prion protein of the filamentous fungus *Podospora anserina* aggregates *in vitro* into amyloid-like fibrils. *J Biol Chem.* **277**:5703-5706.
89. Dufour, E. 2000. Liens entre activité respiratoire et vieillissement chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris 7, 189 p.
90. Dufour, E., J. Boulay, V. Rincheval, and A. Sainsard-Chanet. 2000. A causal link between respiration and senescence in *Podospora anserina*. *Proc Natl Acad Sci U S A.* **97**:4138-4143.
91. Espagne, E. 2000. Contribution à l'étude des systèmes non alléliques d'incompatibilité végétative chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2, accession number 739, 156 p.
92. Espagne, E., P. Balhadere, J. Bégueret, and B. Turcq. 1997. Reactivity in vegetative incompatibility of the HET-E protein of the fungus *Podospora anserina* is dependent on GTP-binding activity and a WD40 repeated domain. *Mol Gen Genet.* **256**:620-627.
93. Espagne, E., P. Balhadere, M. L. Penin, C. Barreau, and B. Turcq. 2002. HET-E and HET-D belong to a new subfamily of WD40 proteins involved in vegetative incompatibility specificity in the fungus *Podospora anserina*. *Genetics.* **161**:71-81.
94. Fassbender, S., K. H. Bruhl, M. Ciriacy, and U. Kück. 1994. Reverse transcriptase activity of an intron encoded polypeptide. *EMBO J.* **13**:2075-2083.
95. Fernandez-Larrea, J., and U. Stahl. 1996. Isolation and characterization of a laccase gene from *Podospora anserina*. *Mol Gen Genet.* **252**:539-551.
96. Fincham, J. R. 1989. Transformation in fungi. *Microbiol Rev.* **53**:148-170.
97. Frese, D., and U. Stahl. 1992. Oxidative stress and ageing in the fungus *Podospora anserina*. *Mech Ageing Dev.* **65**:277-288.
98. Gagny, B. 1998. Influence du système de synthèse protéique cytosolique sur la sénescence du champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris 6, 142 p.
99. Gagny, B., M. Rossignol, and P. Silar. 1997. Cloning, sequencing, and transgenic expression of *Podospora curvicolli* and *Sordaria macrospora* eEF1A genes: relationship between cytosolic translation and longevity in filamentous fungi. *Fungal Genet Biol.* **22**:191-198.
100. Gagny, B., and P. Silar. 1998. Identification of the genes encoding the cytosolic translation release factors from *Podospora anserina* and analysis of their role during the life cycle. *Genetics.* **149**:1763-1775.
101. Glass, N. L., and S. Saupe. 2002. Vegetative incompatibility in filamentous Ascomycetes. In *Molecular Biology of Fungal Development*. H. D. Osiewacz, ed. Dekker, M., New York. p. 109-131.
102. Graña, F. 2000. Découverte d'un mécanisme d'inactivation génique apparenté au RIP (repeat-induced point mutation) et caractérisation d'un gène impliqué dans les mouvements nucléaires chez *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, 158 p.
103. Graña, F., V. Berteaux-Lecellier, D. Zickler, and M. Picard. 2000. *ami1*, an orthologue of the *Aspergillus nidulans* *apsA* gene, is involved in nuclear migration events throughout the life cycle of *Podospora anserina*. *Genetics.* **155**:633-646.
104. Graña, F., O. Lespinet, B. Rimbault, M. Dequard-Chablat, E. Coppin, and M. Picard. 2001. Genome quality control: RIP (repeat-induced point mutation) comes to *Podospora*. *Mol Microbiol.* **40**:586-595.
105. Hamann, A. 2000. Charakterisierung repetitiver Sequenzen bei Hyphenpilzen unter besonderer Berücksichtigung des Ascomyceten *Podospora anserina*. Dissertation, Logos, Berlin.
106. Hamann, A., F. Feller, and H. D. Osiewacz. 2000. The degenerate DNA transposon Pat and repeat-induced point mutation (RIP) in *Podospora anserina*. *Mol Gen Genet.* **263**:1061-1069.
107. Hamann, A., F. Feller, and H. D. Osiewacz. 2000. Yeti-a degenerate gypsy-like LTR retrotransposon in the filamentous ascomycete *Podospora anserina*. *Curr Genet.* **38**:132-140.
108. Hamann, A., and H. D. Osiewacz. 1998. Genome analysis of filamentous fungi: identification and characterization of an unusual GT-rich minisatellite in the ascomycete *Podospora anserina*. *Curr Genet.* **34**:88-92.
109. Heinen, U. 1991. Mitochondriale Genexpression bei Pilzen: Molekulare Analysen zur nukleo-zytoplasmatischen Wechselwirkung. Dissertation, Dissertationes Botanicae, Cramer, Berlin, Stuttgart, vol: **166**.
110. Hermanns, J. 1992. Mitochondriale Genomveränderungen und Altern: Struktur und Funktion eines linearen Plasmides einer langlebigen Mutante von *Podospora anserina*. Dissertation, Bibliotheca Mycologica, Cramer, Berlin, Stuttgart, vol: **142**.
111. Hermanns, J., A. Asseburg, and H. D. Osiewacz. 1994. Evidence for a life span-prolonging effect of a linear plasmid in a longevity mutant of *Podospora anserina*. *Mol Gen Genet.* **243**:297-307.
112. Hermanns, J., A. Asseburg, and H. D. Osiewacz. 1995. Evidence for giant linear plasmids in the ascomycete *Podospora anserina*. *Curr Genet.* **27**:379-386.
113. Hermanns, J., F. Debets, R. Hoekstra, and H. D. Osiewacz. 1995. A novel family of linear plasmids with homology to plasmid pAL2-1 of *Podospora anserina*. *Mol Gen Genet.* **246**:638-647.
114. Hermanns, J., and H. D. Osiewacz. 1992. The linear mitochondrial plasmid pAL2-1 of a long-lived *Podospora anserina*

- mutant is an invertron encoding a DNA and RNA polymerase. *Curr Genet.* **22**:491-500.
115. Hermanns, J., and H. D. Osiewacz. 1994. Three mitochondrial unassigned open reading frames of *Podospora anserina* represent remnants of a viral-type RNA polymerase gene. *Curr Genet.* **25**:150-157.
116. Hermanns, J., and H. D. Osiewacz. 1996. Induction of longevity by cytoplasmic transfer of a linear plasmid in *Podospora anserina*. *Curr Genet.* **29**:250-256.
117. Hoekstra, R. F. 1994. Population genetics of filamentous fungi. *Antonie Van Leeuwenhoek.* **65**:199-204.
118. Hur, M., W. J. Geese, and R. B. Waring. 1997. Self-splicing activity of the mitochondrial group-I introns from *Aspergillus nidulans* and related introns from other species. *Curr Genet.* **32**:399-407.
119. Hur, M., and R. B. Waring. 1995. Two group I introns with a C.G basepair at the 5' splice-site instead of the very highly conserved U.G basepair: is selection post- translational? *Nucleic Acids Res.* **23**:4466-4470.
120. Jamet-Vierny, C., J. Boulay, O. Begel, and P. Silar. 1997. Contribution of various classes of defective mitochondrial DNA molecules to senescence in *Podospora anserina*. *Curr Genet.* **31**:171-178.
121. Jamet-Vierny, C., J. Boulay, and J. F. Briand. 1997. Intramolecular cross-overs generate deleted mitochondrial DNA molecules in *Podospora anserina*. *Curr Genet.* **31**:162-170.
122. Jamet-Vierny, C., V. Contamine, J. Boulay, D. Zickler, and M. Picard. 1997. Mutations in genes encoding the mitochondrial outer membrane proteins Tom70 and Mdm10 of *Podospora anserina* modify the spectrum of mitochondrial DNA rearrangements associated with cellular death. *Mol Cell Biol.* **17**:6359-6366.
123. Jamet-Vierny, C., M. Rossignol, V. Haedens, and P. Silar. 1999. What triggers senescence in *Podospora anserina*? *Fungal Genet Biol.* **27**:26-35.
124. Jamet-Vierny, C., and E. Shechter. 1994. Senescence-specific mitochondrial DNA molecules in *P. anserina*: evidence for transcription and normal processing of the RNA. *Curr Genet.* **25**:538-544.
125. Javerzat, J.-P. 1992. Etude des éléments chromosomiques chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.
126. Javerzat, J. P., V. Bhattacharjee, and C. Barreau. 1993. Isolation of telomeric DNA from the filamentous fungus *Podospora anserina* and construction of a self-replicating linear plasmid showing high transformation frequency. *Nucleic Acids Res.* **21**:497-504.
127. Javerzat, J. P., C. Jacquier, and C. Barreau. 1993. Assignment of linkage groups to the electrophoretically-separated chromosomes of the fungus *Podospora anserina*. *Curr Genet.* **24**:219-222.
128. Kämper, U., U. Kück, A. D. Cherniack, and A. M. Lambowitz. 1992. The mitochondrial tyrosyl-tRNA synthetase of *Podospora anserina* is a bifunctional enzyme active in protein synthesis and RNA splicing. *Mol Cell Biol.* **12**:499-511.
129. Kempken, F. 1995. Horizontal transfer of a mitochondrial plasmid. *Mol Gen Genet.* **248**:89-94.
130. Kempken, F., J. Hermanns, and H. D. Osiewacz. 1992. Evolution of linear plasmids. *J Mol Evol.* **35**:502-513.
131. Khashnobish, A., A. Hamann, and H. D. Osiewacz. 1999. Modulation of gene expression by (CA)_n microsatellites in the filamentous ascomycete *Podospora anserina*. *Appl Microbiol Biotechnol.* **52**:191-195.
132. Kieu-Ngoc, A., and E. Coppin-Raynal. 1988. Identification of two genes controlling kasugamycin resistance in the filamentous fungus *Podospora anserina*. *Genet Res.* **51**:179-184.
133. Kimpel, E. 1999. Die genetische Kontrolle biologischen Alterns: Untersuchungen zur Rolle von Gerontogen *Grisea* des Ascomyceten *Podospora anserina*. Dissertation, Faculty of Biologie, J. W. Goethe-Universität, Frankfurt am Main.
134. Kimpel, E., and H. D. Osiewacz. 1999. *PaGrg1*, a glucose-repressible gene of *Podospora anserina* that is differentially expressed during lifespan. *Curr Genet.* **35**:557-563.
135. Knoop, V., S. Kloska, and A. Brennicke. 1994. On the identification of group II introns in nucleotide sequence data. *J Mol Biol.* **242**:389-396.
136. Koll, F. 1989. Sénescence et recombinaison mitochondriale chez le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, 138 p.
137. Koll, F., J. Boulay, L. Belcour, and Y. d'Aubenton-Carafa. 1996. Contribution of ultra-short invasive elements to the evolution of the mitochondrial genome in the genus *Podospora*. *Nucleic Acids Res.* **24**:1734-1741.
138. Koll, F., C. Sidoti, V. Rincheval, and G. Lecellier. 2001. Mitochondrial membrane potential and ageing in *Podospora anserina*. *Mech Ageing Dev.* **122**:205-217.
139. Kück, H.-U. 1981. Struktur und Funktion mitochondrialer DNA bei Pilzen. Dissertation, Bibliotheca Mycologica, Cramer, Vaduz, vol: **94**.
140. Labarère, J. 1978. L'incompatibilité protoplasmique chez le champignon *Podospora anserina* : étude génétique et biochimique, relation avec certains aspects du développement et de la morphogénèse. Doctorat d'Etat, Université Bordeaux 2.
141. Lalucque, H. 2002. Etudes des dégénérescences cellulaires causées par des éléments non-conventionnels infectieux dans le champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Paris-Sud.
142. Lalucque, H., and P. Silar. 2000. In vivo labelling of functional ribosomes reveals spatial regulation during starvation in *Podospora anserina*. *BMC Genet.* **1**:3.
143. Lalucque, H., and P. Silar. 2003. NADPH oxidase: an enzyme for multicellularity? *Trends Microbiol.* **11**:9-12.
144. Laquel-Robert, P., and M. Castroviejo. 2003. Stimulation of a mitochondrial endo-exonuclease from *Podospora anserina* by PCNA. *Biochem Biophys Res Commun.* **303**:713-720.
145. Lecellier, G. 1995. Etude d'un phénomène de létalité précoce sous le contrôle de gènes nucléaires, associé à une délétion site-spécifique du génome mitochondrial, chez *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, accession number 3595, 202 p.
146. Lecellier, G., and P. Silar. 1994. Rapid methods for nucleic acids extraction from Petri dish grown mycelia. *Curr. Genet.* **25**:122-123.
147. Lieberman, S. W. 2002. Progress toward an ultimate proof of the prion hypothesis. *Proc Natl Acad Sci U S A.* **99**:9098-9100.
148. Lorin, S., E. Dufour, J. Boulay, O. Begel, S. Marsy, and A. Sainsard-Chanet. 2001. Overexpression of the alternative oxidase restores senescence and fertility in a long-lived respiration-deficient mutant of *Podospora anserina*. *Mol Microbiol.*

42:1259-1267.

149. Loubradou, G. 1997. Voies de signalisation cellulaires, développement et incompatibilité végétative chez le champignon filamentueux *Podospora anserina*. Doctorat d'Université, Bordeaux 2, 153 p.

150. Loubradou, G., J. Bégueret, and B. Turcq. 1996. An additional copy of the adenylate cyclase-encoding gene relieves developmental defects produced by a mutation in a vegetative incompatibility-controlling gene in *Podospora anserina*. *Gene*. **170**:119-123.

151. Loubradou, G., J. Bégueret, and B. Turcq. 1997. A mutation in an *HSP90* gene affects the sexual cycle and suppresses vegetative incompatibility in the fungus *Podospora anserina*. *Genetics*. **147**:581-588.

152. Loubradou, G., J. Bégueret, and B. Turcq. 1999. MOD-D, a Galpha subunit of the fungus *Podospora anserina*, is involved in both regulation of development and vegetative incompatibility. *Genetics*. **152**:519-528.

153. Loubradou, G., and B. Turcq. 2000. Vegetative incompatibility in filamentous fungi: a roundabout way of understanding the phenomenon. *Res Microbiol*. **151**:239-245.

154. Maddelein, M. L., S. Dos Reis, S. Duvezin-Caubet, B. Couлары-Salin, and S. J. Saupe. 2002. Amyloid aggregates of the HET-s prion protein are infectious. *Proc Natl Acad Sci U S A*. **99**:7402-7407.

155. Marbach, K., J. Fernandez-Larrea, and U. Stahl. 1994. Reversion of a long-living, undifferentiated mutant of *Podospora anserina* by copper. *Curr Genet*. **26**:184-186.

156. Marcou, D. 1962. Notion de longévité et nature cytoplasmique du déterminant de la sénescence chez quelques champignons. Doctorat d'Etat, Université de Paris, centre d'Orsay, accession number 7.

157. Mattjus, P., B. Turcq, H. M. Pike, J. G. Molotkovsky, and R. E. Brown. 2003. Glycolipid intermembrane transfer is accelerated by *HET-C2*, a filamentous fungus gene product involved in the cell-cell incompatibility response. *Biochemistry*. **42**:535-542.

158. Meier, H. 1994. Isolierung und Identifizierung einer mittelrepetitiven Sequenz bei *Podospora anserina*. Dissertation, Faculty of Theoretical Medicine, Ruprecht-Karls University, Heidelberg.

159. Molitoris, H. P. 1976. Die Laccasen des Ascomyceten *Podospora anserina*. Beiträge zur Kenntnis von Struktur und Funktion eines Systems multipler Enzyme. Habilitation, Bibliotheca Mycologica, Vol. 52, Cramer, Vaduz.

160. Nauta, M. J. 1994. Evolution of genetic systems in filamentous Ascomycetes. Thesis, Agricultural University Wageningen, The Netherlands.

161. Nauta, M. J., and R. F. Hoekstra. 1992. Evolution of reproductive systems in filamentous ascomycetes. I. Evolution of mating types. *Heredity*. **68**:405-410.

162. Nauta, M. J., and R. F. Hoekstra. 1992. Evolution of reproductive systems in filamentous ascomycetes. II. Evolution of hermaphroditism and other reproductive strategies. *Heredity*. **68**:537-546.

163. Nauta, M. J., and R. F. Hoekstra. 1993. Evolutionary dynamics of spore killers. *Genetics*. **135**:923-930.

164. Nauta, M. J., and R. F. Hoekstra. 1994. Evolution of vegetative incompatibility in filamentous Ascomycetes. I. Deterministic models. *Evolution*. **48**:979-995.

165. Nauta, M. J., and R. F. Hoekstra. 1996. Vegetative incompatibility in Ascomycetes: highly polymorphic but selectively neutral? *J Theor Biol*. **183**:67-76.

166. Nauta, M. J., M. van der Gaag, A. J. M. Debets, and R. F. Hoekstra. 1993. A spore killer in a new isolate of *Podospora anserina*. *Fungal Genet. Newsl*. **40A**:36.

167. Nazabal, A., S. Dos Reis, M. Bonneau, S. J. Saupe, and J. M. Schmitter. 2003. Conformational transition occurring upon amyloid aggregation of the HET-s prion protein of *Podospora anserina* analyzed by hydrogen/deuterium exchange and mass spectrometry. *Biochemistry*. **42**:8852-8861.

168. Nguyen Van, H. 1967. Etude des rythmes de croissance chez le *Podospora anserina*. Doctorat d'Etat, Université de Paris, centre d'Orsay, accession number 291.

169. Osiewacz, H. D. 1984. Mitochondriale Mosaikgene: Strukturaufklärung eines mobilen Introns aus dem Ascomyceten *Podospora anserina*. Das "mobile intron" des Ascomyceten *Podospora anserina*. Dissertation, Bibliotheca Mycologica, Cramer, Vaduz, vol: **94**.

170. Osiewacz, H. D. 1990. Molecular analysis of aging processes in fungi. *Mutat. Res*. **237**:1-8.

171. Osiewacz, H. D. 1992. The genetic control of aging in the ascomycete *Podospora anserina*. In *Biology of aging*. R. Zwillig, and C. Balduini, eds. Springer-Verlag, Berlin, Heidelberg, New York, London, Paris, Tokyo, Hong Kong, Barcelona, Budapest. p. 153-164.

172. Osiewacz, H. D. 1992. Genomanalyse bei Hyphenpilzen. Grundlagen, Anwendungen, Perspektiven. Habilitation, Faculty of Biology, Ruhr-University Bochum, accession number.

173. Osiewacz, H. D. 1993. Fungi as model systems in experimental gerontology. In *Current Cancer Research 1992*. D. Krebsforschungszentrum, ed. Steinkopff-Verlag, Darmstadt, Springer-Verlag, New York. p. 147-151.

174. Osiewacz, H. D. 1994. Biologisches Altern und mitochondriale DNA-Instabilitäten. *Bioscope*. **2**:21-28.

175. Osiewacz, H. D. 1994. Modellsysteme in der experimentellen Altersforschung. In *Der Geriatrie Tumorpatient*. M. Neises, A. Wischnik, and F. Melchert, eds. Karger, Basel, Freiburg, Paris, London, New York, New Delhi, Bangkok, Singapore, Tokyo, Sidney. p. 25-32.

176. Osiewacz, H. D. 1994. A versatile shuttle cosmid vector for the efficient construction of genomic libraries and for the cloning of fungal genes. *Curr Genet*. **26**:87-90.

177. Osiewacz, H. D. 1995. Aging and genetic instabilities. In *Molecular Aspects of Aging*. K. Esser, and G. M. Martin, eds. Wiley & Sons, Chichester. p. 29-44.

178. Osiewacz, H. D. 1996. Extrachromosomal and transposable genetic elements. In *Fungal Genetics*. C. J. Bos, ed. Marcel Dekker, New York. p. 177-208.

179. Osiewacz, H. D. 1996. Genetic analysis of senescence in *Podospora anserina*. In *Fungal Genetics*. C. J. Bos, ed. Marcel Dekker, New York. p. 317-335.

180. Osiewacz, H. D. 1996. Nuclear-mitochondrial interactions involved in biological aging. In *Molecular Gerontology*. S. I. S. Rattan, and O. Toussaint, eds. Plenum Press, New York. p. 37-52.

181. Osiewacz, H. D. 1997. Genetic regulation of aging. *J Mol Med.* **75**:715-727.
182. Osiewacz, H. D. 1999. Fondamenti genetici dell'invecchiamento biologico. In *Ambiente e invecchiamento. Politiche e strategie di ricerca in Germania e in Italia.* R. Colantonio, M. Lucchetti, and A. Venturelli, eds. Edizioni Angelo Guerini e Associati SpA, Mailand. p. 117-125.
183. Osiewacz, H. D. 2000. The genetic basis of aging in the fungal aging model *Podospora anserina*. *FUTURA.* **15**:237-241.
184. Osiewacz, H. D. 2002. Aging in fungi: role of mitochondria in *Podospora anserina*. *Mech Ageing Dev.* **123**:755-764.
185. Osiewacz, H. D. 2002. Cellular copper homeostasis: impact on mitochondrial functions. *Gene.* **286**:65-71.
186. Osiewacz, H. D. 2002. Genes, mitochondria and aging in filamentous fungi. *Ageing Res Rev.* **1**:425-442.
187. Osiewacz, H. D. 2002. Mitochondrial functions and aging. *Gene.* **286**:65-71.
188. Osiewacz, H. D. 2003. Aging and mitochondrial dysfunction in the filamentous fungus *Podospora anserina*. In *Model systems in aging.* T. Nyström, and H. D. Osiewacz, eds. Springer, Heidelberg, Germany. p. 17-38.
189. Osiewacz, H. D. in press. Ageing and longevity in the filamentous fungus *Podospora anserina*. In *Aging of the organisms.* H. D. Osiewacz, ed. Kluwer Academic Publisher, Dordrecht, The Netherlands.
190. Osiewacz, H. D., and C. Borghouts. 2000. Cellular copper homeostasis, mitochondrial DNA instabilities, and lifespan control in the filamentous fungus *Podospora anserina*. *Exp Gerontol.* **35**:677-686.
191. Osiewacz, H. D., and C. Borghouts. 2000. Mitochondrial oxidative stress and aging in the filamentous fungus *Podospora anserina*. *Ann N Y Acad Sci.* **908**:31-39.
192. Osiewacz, H. D., A. Clairmont, and M. Huth. 1990. Electrophoretic karyotype of the ascomycete *Podospora anserina*. *Curr. Genet.* **18**:481-483.
193. Osiewacz, H. D., and A. Hamann. 1997. DNA reorganization and biological aging. A review *Biochemistry (Moscow).* **62**:1275-1248.
194. Osiewacz, H. D., A. Hamann, and A. Werner. 1996. Genome analysis of filamentous fungi: identification of a highly conserved simple repetitive sequence in different strains of *Podospora anserina*. *Microbiol Res.* **151**:1-8.
195. Osiewacz, H. D., J. Hermanns, D. Marcou, M. Triffi, and K. Esser. 1989. Mitochondrial DNA rearrangements are correlated with a delayed amplification of the mobile intron (pDNA) in a long-lived mutant of *Podospora anserina*. *Mutat Res.* **219**:9-15.
196. Osiewacz, H. D., and E. Kimpel. 1999. Mitochondrial-nuclear interactions and lifespan control in fungi. *Exp Gerontol.* **34**:901-909.
197. Osiewacz, H. D., and U. Nuber. 1996. GRISEA, a putative copper-activated transcription factor from *Podospora anserina* involved in differentiation and senescence. *Mol Gen Genet.* **252**:115-124.
198. Osiewacz, H. D., and C. Q. Scheckhuber. 2002. Senescence in *Podospora anserina*. In *Molecular biology of fungal development.* H. D. Osiewacz, ed. Marcel Dekker, New York. p. 87-108.
199. Osiewacz, H. D., A. Skaletz, and K. Esser. 1991. Integrative transformation of the ascomycete *Podospora anserina*: identification of the mating-type locus on chromosome VII of electrophoretically separated chromosomes. *Appl Microbiol Biotechnol.* **35**:38-45.
200. Osiewacz, H. D., and S. W. Stumpferl. 2001. Metabolism and aging in the filamentous fungus *Podospora anserina*. *Arch Gerontol Geriatr.* **32**:185-197.
201. Paoletti, M. 1997. Caractérisation de deux protéases chez le champignon filamenteux *Podospora anserina* : mise en évidence d'une relation entre l'incompatibilité végétative et la réponse aux conditions de carence nutritionnelle. Doctorat d'Université, Université Bordeaux 2.
202. Paoletti, M., M. Castroviejo, J. Bégueret, and C. Clavé. 2001. Identification and characterization of a gene encoding a subtilisin-like serine protease induced during the vegetative incompatibility reaction in *Podospora anserina*. *Curr Genet.* **39**:244-252.
203. Paoletti, M., C. Clavé, and J. Bégueret. 1998. Characterization of a gene from the filamentous fungus *Podospora anserina* encoding an aspartyl protease induced upon carbon starvation. *Gene.* **210**:45-52.
204. Perkins, D. D. 2003. A fratricidal fungal prion. *Proc Natl Acad Sci U S A.* **100**:6292-6294.
205. Perrière, M. 1990. Utilisation d'un gène de résistance à la phléomycine comme marqueur de sélection dans la transformation de *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2.
206. Picard, M., R. Debuchy, and E. Coppin. 1991. Cloning the mating types of the heterothallic fungus *Podospora anserina*: developmental features of haploid transformants carrying both mating types. *Genetics.* **128**:539-547.
207. Picard-Bennoun, M. 1973. Mise en évidence d'une unité de transcription polygénique et de suppresseurs informationnels chez l'ascomycète *Podospora anserina* : analyse génétique. Doctorat d'Etat, Université Paris-Sud, 159 p.
208. Pinan-Lucarre, B., M. Paoletti, K. Dementhon, B. Coulary-Salin, and C. Clavé. 2003. Autophagy is induced during cell death by incompatibility and is essential for differentiation in the filamentous fungus *Podospora anserina*. *Mol Microbiol.* **47**:321-333.
209. Pöggeler, S., S. Risch, U. Kück, and H. D. Osiewacz. 1997. Mating-type genes from the homothallic fungus *Sordaria macrospora* are functionally expressed in a heterothallic ascomycete. *Genetics.* **147**:567-580.
210. Pöggeler, S., C. Schwerk, U. Kämper, and U. Kück. 1996. Efficient synthesis of a 72-kDa mitochondrial polypeptide using the yeast Ty expression system. *Biochem Biophys Res Commun.* **219**:890-899.
211. Raju, N. B. 1994. Ascomycete Spore killers: Chromosomal elements that distort genetic ratios among the products of meiosis. *Mycologia.* **86**:461-473.
212. Raju, N. B., and D. D. Perkins. 1994. Diverse programs of ascus development in pseudohomothallic species of *Neurospora*, *Gelasinospira*, and *Podospora*. *Dev Genet.* **15**:104-118.
213. Razanamparany, V. 1988. Mise au point d'un système de transformation chez le champignon filamenteux *Podospora anserina*: analyse des mécanismes de la transformation. Doctorat d'Université, Bordeaux 2.
214. Razanamparany, V., and J. Bégueret. 1988. Non-homologous integration of transforming vectors in the fungus *Podospora anserina*: sequences of junctions at the integration sites. *Gene.* **74**:399-409.

215. Ridder, R., K. P. Künkele, and H. D. Osiewacz. 1991. Sequence of the nuclear ATP synthase subunit 9 gene of *Podospora anserina*: lack of similarity to the mitochondrial genome. *Curr Genet.* **20**:349-351.
216. Ridder, R., and H. D. Osiewacz. 1992. Sequence analysis of the gene coding for glyceraldehyde-3-phosphate dehydrogenase (*gpd*) of *Podospora anserina*: use of homologous regulatory sequences to improve transformation efficiency. *Curr Genet.* **21**:207-213.
217. Rizet, G. 1943. Recherche sur la génétique des Ascomycètes. Etude expérimentale du *Podospora anserina*. Doctorat d'Etat, Université de Paris.
218. Rossignol, J.-L., and M. Picard. 1991. *Ascobolus immersus* and *Podospora anserina*: sex, recombination, silencing and death. In *More gene manipulation in fungi*. J. W. Bennett, and L. L. Lasure, eds. Academic Press, Inc., San Diego CA. p. 226-290.
219. Rossignol, M., and P. Silar. 1996. Genes that control longevity in *Podospora anserina*. *Mech Ageing Dev.* **90**:183-193.
220. Ruprich-Robert, G. 2001. Peroxisomes et mitochondries: différenciation cellulaire et régulation rétrograde chez *Podospora anserina*. Doctorat d'Université, Université Paris-Sud, 147 p.
221. Ruprich-Robert, G., V. Berteaux-Lecellier, D. Zickler, A. Panvier-Adoutte, and M. Picard. 2002. Identification of six loci in which mutations partially restore peroxisome biogenesis and/or alleviate the metabolic defect of *pex2* mutants in *Podospora*. *Genetics.* **161**:1089-1099.
222. Ruprich-Robert, G., D. Zickler, V. Berteaux-Lecellier, C. Velot, and M. Picard. 2002. Lack of mitochondrial citrate synthase discloses a new meiotic checkpoint in a strict aerobic. *EMBO J.* **21**:6440-6451.
223. Sainsard-Chanet, A., and O. Begel. 1990. Insertion of an LrDNA gene fragment and of filler DNA at a mitochondrial exon-intron junction in *Podospora*. *Nucleic Acids Res.* **18**:779-783.
224. Sainsard-Chanet, A., O. Begel, and L. Belcour. 1993. DNA deletion of mitochondrial introns is correlated with the process of senescence in *Podospora anserina*. *J Mol Biol.* **234**:1-7.
225. Sainsard-Chanet, A., O. Begel, and L. Belcour. 1994. DNA double-strand break in vivo at the 3' extremity of exons located upstream of group II introns. Senescence and circular DNA introns in *Podospora* mitochondria. *J Mol Biol.* **242**:630-643.
226. Sainsard-Chanet, A., O. Begel, and Y. d'Aubenton-Carafa. 1998. Two co-existing mechanisms account for the large-scale deletions of mitochondrial DNA in *Podospora anserina* that involve the 5' border of a group-II intron. *Curr Genet.* **34**:326-335.
227. Sainsard-Chanet, A., C. Sellem, P. Silar, L. Belcour, M. Dequard-Chablat, and M. Picard. 1994. Sénescence chez les champignons filamenteux. *Médecine/Sciences.* **5**:574-576.
228. Salvo, J. L., B. Rodeghier, A. Rubin, and T. Troischt. 1998. Optional introns in mitochondrial DNA of *Podospora anserina* are the primary source of observed size polymorphisms. *Fungal Genet Biol.* **23**:162-168.
229. Saupe, S. 1993. Contribution à l'étude du système d'incompatibilité végétative *het-c/het-e* du champignon filamenteux *Podospora anserina*. Doctorat d'Université, Université Bordeaux 2, 151 p.
230. Saupe, S., C. Descamps, B. Turcq, and J. Bégueret. 1994. Inactivation of the *Podospora anserina* vegetative incompatibility locus *het-c*, whose product resembles a glycolipid transfer protein, drastically impairs ascospore production. *Proc Natl Acad Sci U S A.* **91**:5927-5931.
231. Saupe, S., B. Turcq, and J. Bégueret. 1995. A gene responsible for vegetative incompatibility in the fungus *Podospora anserina* encodes a protein with a GTP-binding motif and G beta homologous domain. *Gene.* **162**:135-139.
232. Saupe, S., B. Turcq, and J. Bégueret. 1995. Sequence diversity and unusual variability at the *het-c* locus involved in vegetative incompatibility in the fungus *Podospora anserina*. *Curr Genet.* **27**:466-471.
233. Saupe, S. J. 2000. Molecular genetics of heterokaryon incompatibility in filamentous ascomycetes. *Microbiol Mol Biol Rev.* **64**:489-502.
234. Saupe, S. J., C. Clavé, and J. Bégueret. 2000. Vegetative incompatibility in filamentous fungi: *Podospora* and *Neurospora* provide some clues. *Curr Opin Microbiol.* **3**:608-612.
235. Saupe, S. J., C. Clavé, M. Sabourin, and J. Bégueret. 2000. Characterization of *hch*, the *Podospora anserina* homolog of the *het-c* heterokaryon incompatibility gene of *Neurospora crassa*. *Curr Genet.* **38**:39-47.
236. Schmidt, U. 1989. Struktur, Spleissprozesse und Funktionen mitochondrialer Introne. Dissertation, Bibliotheca Mycologica, Cramer, Berlin, Stuttgart, vol: **127**.
237. Schmidt, U., E. Budde, and U. Stahl. 1992. Self-splicing of a mitochondrial group I intron from the cytochrome b gene of the ascomycete *Podospora anserina*. *Mol Gen Genet.* **233**:71-80.
238. Schmidt, U., B. Riederer, M. Morl, C. Schmelzer, and U. Stahl. 1990. Self-splicing of the mobile group II intron of the filamentous fungus *Podospora anserina* (COI II) *in vitro*. *EMBO J.* **9**:2289-2298.
239. Schmidt, U., R. Sägebarth, C. Schmelzer, and U. Stahl. 1993. Self-splicing of a *Podospora anserina* group IIA intron *in vitro*. Effects of 3'-terminal intron alterations on cleavage at the 5' and 3' splice site. *J Mol Biol.* **231**:559-568.
240. Schulte, E. 1988. Einfluss struktureller Umordnungen des Chondrioms auf die Seneszenz bei *Podospora anserina*. Dissertation, Bibliotheca Mycologica, Cramer, Vaduz, vol: **122**.
241. Schulte, E., U. Kück, and K. Esser. 1989. Multipartite structure of mitochondrial DNA in a fungal longlife mutant. *Plasmid.* **21**:79-84.
242. Schwartz, T., and H. D. Osiewacz. 1996. Telomere length does not change during senescence of the ascomycete *Podospora anserina*. *Mutat Res.* **316**:193-199.
243. Sellem, C. H., O. Begel, and A. Sainsard-Chanet. 2000. Recombinant mitochondrial DNA molecules suggest a template switching ability for group-II-intron reverse transcriptase. *Curr Genet.* **37**:24-28.
244. Sellem, C. H., and L. Belcour. 1994. The *in vivo* use of alternate 3'-splice sites in group I introns. *Nucleic Acids Res.* **22**:1135-1137.
245. Sellem, C. H., G. Lecellier, and L. Belcour. 1993. Transposition of a group II intron. *Nature.* **366**:176-178.
246. Sellem, C. H., A. Sainsard-Chanet, and L. Belcour. 1990. Detection of a protein encoded by a class II mitochondrial intron of *Podospora anserina*. *Mol Gen Genet.* **224**:232-240.

247. Silar, P. 1994. Is translational accuracy an out-dated topic? *Trends Genet.* **10**:71-72.
248. Silar, P. 1995. Two new easy-to-use vectors for transformations. *Fungal Genet. Newsl.* **42**:73.
249. Silar, P., C. Barreau, R. Debuchy, S. Kicka, B. Turcq, A. Sainsard-Chanet, C. H. Sellem, A. Billault, L. Cattolico, S. Duprat, and J. Weissenbach. 2003. Characterization of the genomic organization of the region bordering the centromere of chromosome V of *Podospora anserina* by direct sequencing. *Fungal Genet Biol.* **39**:250-263.
250. Silar, P., and M. J. Daboussi. 1999. Non-conventional infectious elements in filamentous fungi. *Trends Genet.* **15**:141-145.
251. Silar, P., V. Haedens, M. Rossignol, and H. Lalucque. 1999. Propagation of a novel cytoplasmic, infectious and deleterious determinant is controlled by translational accuracy in *Podospora anserina*. *Genetics.* **151**:87-95.
252. Silar, P., F. Koll, and M. Rossignol. 1997. Cytosolic ribosomal mutations that abolish accumulation of circular intron in the mitochondria without preventing senescence of *Podospora anserina*. *Genetics.* **145**:697-705.
253. Silar, P., H. Lalucque, V. Haedens, D. Zickler, and M. Picard. 2001. *eEF1A* Controls ascospore differentiation through elevated accuracy, but controls longevity and fruiting body formation through another mechanism in *Podospora anserina*. *Genetics.* **158**:1477-1489.
254. Silar, P., H. Lalucque, and C. Vierny. 2001. Cell degeneration in the model system *Podospora anserina*. *Biogerontology.* **2**:1-17.
255. Silar, P., and M. Picard. 1994. Increased longevity of EF-1 alpha high-fidelity mutants in *Podospora anserina*. *J Mol Biol.* **235**:231-236.
256. Silar, P., M. Rossignol, V. Haedens, Z. Derhy, and A. Mazabraud. 2000. Deletion and dosage modulation of the *eEF1A* gene in *Podospora anserina*: effect on the life cycle. *Biogerontology.* **1**:47-54.
257. Silar, P., M. Rossignol, R. Tahar, Z. Derhy, and A. Mazabraud. 2000. Informational suppressor alleles of the *eEF1A* gene, fertility and cell degeneration in *Podospora anserina*. *Mol Gen Genet.* **264**:354-362.
258. Silar, P., C. Vierny, B. Gagny, M. Rossignol, and V. Haedens. 1997. Genetic analysis of two cellular degenerations in filamentous fungus *Podospora anserina*. *C R Seances Soc Biol.* **191**:563-577.
259. Silar, P., C. Vierny, B. Gagny, M. Rossignol, and V. Haedens. 1997. Génétique de deux dégénérescences cellulaires chez le champignon filamenteux *Podospora anserina*. *C. R. Soc. Biol.* **191**:563-577.
260. Silliker, M. E., and D. J. Cummings. 1990. Genetic and molecular analysis of a long-lived strain of *Podospora anserina*. *Genetics.* **125**:775-781.
261. Silliker, M. E., and D. J. Cummings. 1990. A mitochondrial DNA rearrangement and three new mitochondrial plasmids from long-lived strains of *Podospora anserina*. *Plasmid.* **24**:37-44.
262. Silliker, M. E., M. R. Liotta, and D. J. Cummings. 1996. Elimination of mitochondrial mutations by sexual reproduction: two *Podospora anserina* mitochondrial mutants yield only wild-type progeny when mated. *Curr Genet.* **30**:318-324.
263. Silliker, M. E., J. A. Monroe, and M. A. Jorden. 1997. Evaluation of the efficiency of sexual reproduction in restoring *Podospora anserina* mitochondrial DNA to wild-type. *Curr Genet.* **32**:281-286.
264. Simonet, J. M. 1980. Etude de mutants méiotiques chez *Podospora anserina*: mise en évidence d'un contrôle génétique commun à des fonctions méiotiques et végétatives. Doctorat d'Etat, Université Paris-Sud, 84 p.
265. Smith, J. R. 1970. A genetic study of the development of "Senescence" in *Podospora anserina*. Ph. D. Thesis, Yale University, 138 p.
266. Ter-Avanesyan, M. D., and V. V. Kushnirov. 1999. Prions: infectious proteins with genetic properties. *Biochemistry (Moscow).* **64**:1382-1390.
267. Thompson-Coffe, C. 1993. Morphogénèse dans l'asque. Doctorat d'Université, Université Paris-Sud, accession number, 89 p.
268. Thompson-Coffe, C., G. Borioli, D. Zickler, and A. L. Rosa. 1999. Pyruvate decarboxylase filaments are associated with the cortical cytoskeleton of asci and spores over the sexual cycle of filamentous ascomycetes. *Fungal Genet Biol.* **26**:71-80.
269. Thompson-Coffe, C., and D. Zickler. 1994. How the cytoskeleton recognizes and sorts nuclei of opposite mating type during the sexual cycle in filamentous ascomycetes. *Dev Biol.* **165**:257-271.
270. Touré, B. 1973. Les événements de recombinaison méiotique dans le locus complexe 14 du *Podospora anserina*: leur dimension, leur relation avec la position des sites et la nature des mutations. Doctorat d'Etat, Université Paris-Sud, accession number 1087, 121 p.
271. Turcq, B. 1989. Clonage direct de gènes par complémentation chez le champignon *Podospora anserina* : application à l'étude de gènes d'incompatibilité. Doctorat d'Université, Université Bordeaux 2, accession number 62, 103 p.
272. Turcq, B., C. Deleu, M. Denayrolles, and J. Bégueret. 1991. Two allelic genes responsible for vegetative incompatibility in the fungus *Podospora anserina* are not essential for cell viability. *Mol Gen Genet.* **228**:265-269.
273. Uptain, S. M., and S. Lindquist. 2002. Prions as protein-based genetic elements. *Annu Rev Microbiol.* **56**:703-741.
274. van der Gaag, M., A. J. M. Debets, and R. F. Hoekstra. 2003. Spore killing in the fungus *Podospora anserina*: a connection between meiotic drive and vegetative incompatibility? *Genetica.* **117**:59-65.
275. van der Gaag, M., A. J. M. Debets, J. Oosterhof, M. Slakhorst, J. A. G. M. Thijssen, and R. F. Hoekstra. 2000. Spore-killing meiotic drive factors in a natural population of the fungus *Podospora anserina*. *Genetics.* **156**:593-605.
276. van der Gaag, M., A. J. M. Debets, H. D. Osiewacz, and R. F. Hoekstra. 1998. The dynamics of pAL2-1 homologous linear plasmids in *Podospora anserina*. *Mol Gen Genet.* **258**:521-529.
277. Vierny-Jamet, C. 1988. Senescence in *Podospora anserina*: a possible role for nucleic acid interacting proteins suggested by the sequence analysis of a mitochondrial DNA region specifically amplified in senescent cultures. *Gene.* **74**:387-398.
278. Vilamitjana, J. 1985. Utilisation d'anticorps monoclonaux dirigés contre la RNA polymérase B du *Podospora anserina* pour étudier la transcription chez les organismes eucaryotes., Bordeaux 2.
279. Vilamitjana, J., and C. Barreau. 1987. Inhibition of initiation step of transcription by a monoclonal antibody directed against B11 subunit of *Podospora* RNA polymerase B. *Eur. J. Biochem.* **162**:317-323.
280. Wang, H., K. B. Gloer, J. B. Gloer, J. A. Scott, and D. Malloch. 1997. Anserinones A and B: new antifungal and antibacterial benzoquinones from the coprophilous fungus *Podospora anserina*. *J Nat Prod.* **60**:629-631.

281. Wickner, R. B. 1997. A new prion controls fungal cell fusion incompatibility. *Proc Natl Acad Sci U S A*. **94**:10012-10014.
282. Wickner, R. B., H. K. Edskes, B. T. Roberts, M. Pierce, and U. Baxa. 2002. Prions of yeast as epigenetic phenomena: high protein "copy number" inducing protein "silencing". *Adv Genet*. **46**:485-525.
283. Wickner, R. B., K. L. Taylor, H. K. Edskes, M. L. Maddelein, H. Moriyama, and B. T. Roberts. 1999. Prions in *Saccharomyces* and *Podospora* spp.: protein-based inheritance. *Microbiol Mol Biol Rev*. **63**:844-861.
284. Zickler, D. 1973. La méiose et les mitoses au cours du cycle de quelques Ascomycètes. Doctorat d'Etat, Université Paris-Sud, 86 p.
285. Zickler, D., S. Arnaise, E. Coppin, R. Debuchy, and M. Picard. 1995. Altered mating-type identity in the fungus *Podospora anserina* leads to selfish nuclei, uniparental progeny, and haploid meiosis. *Genetics*. **140**:493-503.