

## 5. Literaturverzeichnis

1. Aoiki, F. et al.: Regulation of transcriptional activity during the first and second cell cycles in the preimplantation mouse embryo, *Dev. Biol.* 181 (2) (1997) 296-307
2. Barnett, D.K. et al.: Glucose and Phosphate toxicity in hamster preimplantation embryos involves disruption of cellular organization including distribution of active mitochondria. *Mol Reprod Dev* 48 (1997) 204-213
3. Barrit, J.A. et al.: Mitochondria in human offspring derived from ooplasmic transplantation. *Hum Reprod* 16 (2001) 513-516
4. Barrit, J.A. et al.: Spontaneous and artificial changes in human ooplasmic mitochondria. *Hum Reprod* 15 Suppl 2 (2000) 207-217
5. Beddington, R. S. and E. J. Robertson: An assessment of the developmental potential of embryonic stem cells in the midgestation mouse embryo. *Development* 105 (1989), 733-737
6. Behboodi, E. et al.: Birth of large calves that developed from in vitro-derived bovine embryos. *Theriogenology* 44 (1995) 227-232
7. Blandau, R. J.: In vitro fertilization and embryo transfer. *Fertil Steril* 33(1980), 3-11
8. Bouniol, C. et al.: Endogenous transcription occurs at the 1-cell stage in the mouse embryo. *Exp Cell Res* 218 (1995) 57-62
9. Brannan, C.I. et Bartolomei, M.S.: Mechanisms of genomic imprinting. *Curr Opin Genet Dev* 9 (1999) 164-170
10. Brenner, C.A. et al.: Mitochondrial DNA heteroplasmy after human ooplasmic transplantation. *Fertil Steril* 74 (2000) 573-578
11. Buehr, M.: The primordial germ cells of mammals: some current perspectives. *Exp. Cell Res.* 232 (1997) 194-207
12. Calarco, PG.: Polarization of mitochondria in the unfertilized mouse oocyte. *Dev Genet.* 16 (1995) 36-43
13. Chen, J.M. et al.: A combined analysis of the cystic fibrosis transmembrane conductance regulator: implications for structure and disease models. *Mol Biol Evol* 18 (2001) 1771-1788
14. Chesné, P. et al.: Cloned rabbits produced by nuclear transfer from adult somatic cells. *Nature Biotechnology* 20 (2002) 366-369
15. Collas, P. et Robl, J.M.: Factors affecting efficiency of nuclear transplantation in the rabbit embryo. *Biol Reprod* 43 (1990) 165-174
16. Constancia, M. et al.: Imprinting mechanisms. *Genome Res.* 8 (9) (1998) 881-900
17. Cummins, J.M. et al.: Fate of microinjected spermatid mitochondria in the mouse oocyte and embryo. *Zygote* 6 (1998) 213-222
18. Cummins, J.M.: The role of maternal mitochondria during oogenesis, fertilization and embryogenesis. *Reprod Biomed* 4 (2) (2002) 176-82

19. DeRenzo, C. et Seydoux, G.: A clean start: degradation of maternal proteins at the oocyte-to-embryo transition. *Trends Cell Biol* 8 (2004) 420-426
20. De Sousa, P.A. et al.: Evaluation of gestational deficiencies in cloned sheep fetuses and placent. *Biol. Reprod.* 65 (2001) 23-29
21. De Vries, W. N. et al.: Maternal beta-catenin and E-cadherin in mouse development. *Development* 131 (2004) 4435-4445
22. Eddy, E.M.: Germ plasm and the differentiation of the ger cell line. *Int. Rev. Cytol.* 43 (1975) 229-281
23. Edwards, R.G.: IVF and the history of stem cells. *Nature* 413 (2001) 349-351
24. Eggan, K. et al.: Hybrid vigor, fetal overgrowth and viability of mice derived by nuclear cloning and tetraploid embryo complementation. *Proc. Natl. Acad. Sci. USA* 98 (2001) 6209-6214
25. Enders, G.C. et May, J.J.: Developmentally regulated expression of a mouse germ cell nuclear antigen examined from embryonic day 11 to adult in male and female mice. *Dev. Biol* 163 (1994) 331-340
26. Evans, M.J. et al.: Mitochondrial DNA genotypes in nuclear transfer-derived cloned sheep. *Nat Genet* 23 (1999) 90-93
27. Forlani, G. et al.: Relief of a repressed gene expression state in the mouse 1-cell embryo requires DNA replication. *Development* 125 (1998) 3152-3166
28. Fulka, J. Jr. et al.: Nuclear transplantation in mammals: remodelling of transplanted nuclei under the influence of maturation promoting factor. *Bioessays.* 18 (1996) 835-40
29. Fulka, J. Jr. et Mrazek, M.: Cloning in mammals - biological aspects. *Cas Lek Cesk.* (2004) 143 (5) 295-8
30. Galat, V. et al.: Effect of donor cell age on the efficiency of nuclear transfer in rabbits. *Reprod Biomed* 4 (2002) 32-37
31. Gardner, R.L., Surani M.A. et al.: Epigenesis versus preformation during mammalian development. Introduction. *Philos Trans R Soc Lond B Biol Sci* (2003), 358 (1436) 1313-5
32. Graur, D. et al.: Phylogenetic positions of the order Lagomorpha (rabbits, Hares and allies). *Nature* 379 (1996) 333-335
33. Gregory, P.W.: The early embryology of the rabbit. *Contr Embryol Carneg Instn* (1930) 21 141-168
34. Gurdon, J.B. et al.: Reprogramming of transplanted nuclei in amphibia. *Int. Rev. Cytol.* S9 (1979) 161-178
35. Gurdon, J.B.: Genetic reprogramming following nuclear transplantation in amphibia. *Cell. Dev. Biol.* 10 (1999) 239-243
36. Gyllenstein, U. et al., 1991: Paternal inheritance of mitochondrial DNA in mice. *Nature* 352 (1991) 255-257

37. Haaf, T.: The battle of the sexes after fertilization: behavior of paternal and maternal chromosomes in early mammalian embryo. *Chromosome Research* 9 (2001) 263-271
38. Hahnel, A.C. et Eddy, E.M.: Cell surface markers of mouse primordial germ cells defined by two monoclonal antibodies. *Gamet Res* 15 (1986) 25-34
39. Heath, J.K.: Mammalien primordial germ cells. In: Johnson, M.H. (ed) *Development in mammals*, vol. 3, North Holland, New York (1978), 267-298
40. Henrion, G. et al.: Differential Regulation of the Translation and the stability of two maternal transcripts in preimplantation rabbit embryos. *Mol Reprod Dev* 56 (2000) 12-25
41. Heyman, Y. et al. : Reprogrammation complète de noyaux embryonnaires congelés, après transfert nucléaire chez le lapin. *C.R. Acad. Sci. Paris*, t. 311, Série III, (1990) 321-326
42. Hill, J.R. et al.: Clinical and pathologic features of cloned transgenic calves and fetuses. *Therionology* 51 (1999) 1451-65
43. Hill, J.R. et al.: Development rates of male bovine nuclear transfer embryos derived from adult and fetal cells. *Biol. Reprod.* 62 (2000) 1135-1140
44. Hoeg, J.M. et al.: Overexpression of lecithin: cholesterol acetyltransferase in transgenic rabbits prevents diet-induced atherosclerosis. *Proc. Natl. Acad. Sci. USA* 93 (1996) 11448-11453
45. Hogan, B., Beddington, R., Costantini, F., Lazy, E.: *Manipulating the mouse embryo. A laboratory manual.* 2<sup>nd</sup> edition Cold Spring Harbour Press, Cold Spring Harbour, 1994, S. 191 und S. 415
46. Holliday, R: Inheritance of epigenetic defects. *Science* 238 (1987) 163-170
47. Humpherys, D. et al.: Abnormal gene expression in cloned mice derived from embryonic stem cell and cumulus cell nuclei. *Proc Natl Acad Sci USA* (2002) 12889-12894
48. Humpherys, D. et al.: Epigenetic instability in ES cells and cloned Mice. *Science* 293 (2001) 95-97
49. Jansen, R.P. et de Boer, K.: The bottleneck: mitochondrial imperatives in oogenesis and ovarian follicular fate. *Mol Cell Endocrinol* 145 (1998) 81-88
50. Jouneau, A. et Renard, J.-P.: Cellules souches embryonnaires et clonage thérapeutique. *Medecine/Sciences* 18 (2002) 169-180
51. Kafri, T. et al.: Mechanistic aspects of genome-wide demethylation in the preimplantation mouse embryo *Proc. Nat. Acad. Sci. USA* 90 (1993) 10558-10562
52. Kanka, J. et al.: Onset of RNA synthesis and poly (A) content of early rabbit embryos. Comparison with sheep. *Reprod Nutr Dev* 33 (1993) 465-474
53. Kikyo, N. et Wolffe, A.P.: Reprogramming nuclei: Insights from cloning, nuclear transfer and heterokaryons. *Journal of cell science* 113 (2000) 11-20
54. Kroemer, G. et Reed, J.C.: Mitochondrial control of cell death. *Nat Med* (2000) 6: 513-9
55. Kroemer, G.: Mitochondrial control of apoptosis. *Bull. Acad. Natl. Med.* 185 (2001) 1135-42

56. Lanza, R.P. et al.: Extension of cell life-span and telomere length in animals cloned from senescent somatic cells. *Science* 288 (2000) 665-669
57. Latham, K.E.: Mechanism and control of embryonic genome activation in mammalian embryos, *Int. Rev. Cytol.* 193 (1999) 71-124
58. Lehmann, R. et Ephrussi, A.: Germ plasm formation and germ cell determination in *Drosophila*. *Germline Development* 182 (1994) Ciba Symposium, 68-84
59. Leiser, R. et Denker, H.W.: The dynamic structure of rabbit blastocyst coverings. II. Ultrastructural evidence for a role of the trophoblast in neozona formation. *Anat Embryol* 179 (2) (Berl.) (1988) 129-134
60. Li, G.-P. et al.: Rabbit cloning: Improved fusion rates using Cytochalasin B in the fusion buffer. *Mol Reprod Dev* 61 (2002), 187-191
61. Liu, C. T. et al.: Parthenogenesis of rabbit oocytes activated by different stimuli. *Anim Reprod Sci* 70 (2002) (3-4), 267-76.
62. Majumder, S. et al.: Analysis of a transcriptionally permissive state during the 1-cell stage of mouse embryogenesis. *Dev. Biol.* 149 (1993) 457-462
63. Manes, C.: The participation of the embryonic genome during early cleavage in the rabbit. *Dev. Biol.* 32 (1993) 453-459
64. McCreath, K.J. et al.: Production of gene targeted sheep by nuclear transfer from cultured somatic cells *Nature* 405 (2000) 1066-1069
65. McKay, D.C. et al.: Histochemical observations on the germ cells of human embryos. *Anat rec* 117 (1953) 750-752
66. Mello, C.C. et al.: The PIE-1 protein and germline specification in *C. elegans* embryos. *Nature* 382 (1996) 710-712
67. Ménéz, Y. et Renard, J.-P.: The life of the egg before implantation. In: Thibault C., Levasseur M.C., Hunter R.H.F. (Hrsg.): *Reproduction in mammals and man*, RHF Hunter, Paris, 1993, S. 345-365
68. Meyer, L. et Kim, S.H.: Chemical inhibitors of cyclin-dependent kinases. *Methods Enzymol* 283 (1997) 113-128
69. Mirkes, P.E.: 2001 Warkany lecture: To die or not to die, the role of Apoptosis in normal and abnormal mammalian development. *Teratology* 65 (2002) 228-39
70. Mitalipov, S.M. et al.: Development of nuclear transfer and parthenogenetic rabbit embryos activated with Inositol 1,4,5-triphosphate. *Biol Reprod* 60 (1999) 821-827
71. Monk, M. et al.: Temporal and regional changes in DNA methylation in the embryonic, extraembryonic and germ cell lineages during mouse embryo development. *Development* 16 (1987) 371-382
72. Motta, P.M. et al., 2000: Mitochondrial morphology in human fetal and adult female germ cells. *Hum Reprod* 15 (suppl 2) (2000) 129-147

73. Muggleton-Harris, A.L. et Brown, J.J.: Cytoplasmic factors influence mitochondrial reorganization and resumption of cleavage during culture of early mouse embryos. *Hum Reprod* 3 (1988) 1020-1028
74. Nieuwkoop, P. et Sutasurya, L.: Primordial germ cells in the chordates. In: Cambridge Univ Press, Cambridge, 1979, S. 91-94
75. Nichols, J. et al.: Formation of pluripotent stem cells in the mammalian embryo depends on the POU transcription factor Oct4, *Cell* 95 (3) (1998) 379-91
76. Nothias, J.Y. et al.: Regulation of gene expression at the beginning of mammalian development. *J. Biol. Chem.* 270 (1995) 22077-22080
77. Nothias, J.Y. et al.: Uncoupling of transcription and translation during zygotic gene activation in the mouse. *EMBO J.* 15 (1996) 5715-5725
78. Noto, V. et al.: Mitochondrial distribution after fast embryo freezing. *Hum Reprod* 8 (1993) 2115-2118
79. Ozil, J.P.: The parthenogenetic development of rabbit oocytes after repetitive pulsatile electrical stimulation. *Development* 109 (1990) (117-127).
80. Pacheco-Trigon, S. et al.: Molecular characterization of genomic activities at the onset of zygotic transcription in mammals. *Biol Reprod* 67 (2002) 1907-1918
81. Perreault, S.D.: Chromatine remodeling in mammalian zygotes. *Mutat Res* 296 (1992) 43-55
82. Razin, A. et Shemer, R.: DNA methylation in early development. *Hum. Mol. Genet.* 4 (1995) 1751-1755
83. Renard, J.-P: Chromatin remodelling and nuclear reprogramming at the onset of embryonic development in mammals. *Reprod. Fertil. Dev.* 10 (1998) 573-580
84. Renard, J.-P. et Vignon, X.: Le clonage: état de l'art. *Pour la science* 209 (2001) 40-45
85. Reik, W. et al., 2001: epigenetic reprogramming in mammalian development. *Science* 293 (2001) 1089-93
86. Ricken, A. et Viebahn, C.: Stage specific Expression of Mitochondrial Germ Cell Epitope PG2 During Postnatal Differentiation of Rabbit germ cells. *Biol Reprod* 67 (2002) 196-203
87. Rideout, W.M. et al.: Nuclear Cloning and Epigenetic Reprogramming. *Science* 293 (2001) 1093-1098
88. Robb, D.L. et al.: A kinesin like protein is required for germ plasm aggregation in *Xenopus*. *Cell* 87 (1996) 823-831
89. Saffman, E.E. et Lasko, P.: Germline development in vertebrates and invertebrates. *Cell. Mol. Life Sci.* 55 (1999) 1141-1163
90. Saitou, M. et al.: A molecular programme for the specification of germ cell fate in mice. *Nature* 418 (2002) 293-300
91. Sathanathan, A.H. et al.: Mitochondrial Morphology during preimplantational human embryogenesis. *Hum Reprod* 15 (suppl 2) (2000) 148-159

92. Schäfer-Haas, A. et Viebahn, C.: The germ cell epitope PG2 is expressed in primordial germ cells and in hypoblast cells of the gastrulating rabbit embryo. *Anat Embryol* 202 (2000) 13-23
93. Schultz, R.M.: Regulation of zygotic gene activation in the mouse. *BioEssays* 8 (1993) 531-538
94. Seydoux, G. et al.: Repression of geneexpression in the embryonic germ lineage of *C. elegans*. *Nature* 382 (1996) 713-716
95. Shi, W., Zakhartchenko, V.: Epigenetic reprogramming in mammalian nuclear transfer. *Differentiation* 71(2): 91-113
96. Smith, L.C. et Alcivar, A.A.: Cytoplasmic inheritance and its effects on development and performance. *J Reprod Fertil Suppl* 48 (1993) 31-43
97. Soloy, E. et al.: Time course of pronuclear deoxyribonucleid acid synthesis in parthenogenetically activated bovine oocytes. *Biol. Reprod.* 57 (1997) 27-35
98. Solter, D. and Knowels, B.B.: Monoclonal antibody defining a stage specific mouse embryonic antigen (SSEA-1). *Acad Sci USA* 75 (1978), 5565-5569
99. Solter, D.: Mammalien cloning: advances and limitations *Nat. Rev. Genet.* 1 (2000) 199-207
100. Squirrell, J.M. et al.: Imaging Mitochondrial Organization in Living primate oocytes and Embryos using Multiphoton Microscopy. *Microsc. Microanal.* 9 (2003) 190-201
101. Steeger, K.: Transcriptional and translational regulations of gene expression in haploid spermatids, *Anat. Embryol.* 199 (6) (1999) 145-152
102. Stice, S.L. et Robl, J.M.: Nuclear reprogramming in nuclear transplant rabbit embryos. *Biol Reprod* 39 (1988) 603-613
103. Stinnackre, M.G. et al.: The preparation of recombinant proteins from mouse and rabbit milk for biomedical and pharmaceutical studies. In: Houdebine, L.M. (Hrsg.): *Transgenic animals, generation and use*, Harwood Academic publishers, Amsterdam, 1997, S. 461-463
104. Strome, S. et al.: Specification and development of the germline in *Caenorhabditis elegans*. *Germline Development Ciba Symposium* 182 (1994) 31-45
105. Sutovsky, P. et Prather, R.S.: Nuclear remodeling after SCNT: a contractor's nightmare. *Trends Biotechnol* 22 (5) (2004) 205-8.
106. Sutovsky, P. et al.: Ubiquitin tag for sperm mitochondria. *Nature* 402 (1999) 371-372
107. Szöllösi, D.: Time and duration of DNA synthesis in rabbit eggs after sperm penetration. *Anat Rec.* 154 (1966) 209-212
108. Techakumphu, M. et al.: Preliminary study on somatic cell nuclear transfer in rabbits in Thailand. *J Med Assoc Thai* 86 (2003) 276-281
109. Telford, N. A. et al.: Transition from maternal to embryonic control in early mammalian development: a comparison of several species. *Mol Reprod Dev* 26 (1990) 90-100
110. Tilghman, S.M.: The sins of the fathers and mothers: genomic imprinting in in mammalien development. *Cell* 96 (1999) 185-193

111. Van Blerkom, J. et al.: Differential mitochondrial distribution in human pronuclear embryos leads to disproportionate inheritance between blastomeres: relationship to microtubular organization, ATP content and competence. *Human Reproduction* 15 (2000) 2621-2633
112. Van Blerkom, J. et Runner, M.N.: Mitochondrial reorganization during resumption of arrested meiosis in the mouse oocyte. *Am. J. Anat.* 171 (1984) 335-355
113. Viebahn, C. et al.: Primordial germ cells of the rabbit are specifically recognized by a monoclonal antibody labelling the perimitochondrial cytoplasm. *Histochem Cell Biol* 109 (1998) 49-58
114. Wakayama, T. et Yanagimachi, R.: Cloning of male mice from adult tail-tip cells. *Nature Genet.* 22 (1999) 127-128
115. Wakayama, T. et al.: Full term development of mice from enucleated oocytes injected with cumulus cell nuclei. *Nature* 394 (1998), 369-374
116. Wiekowski, M. et al.: Changes in histone synthesis and in modification at the beginning of the mouse development correlate with the establishment of chromatin mediated repression of transcription. *J Cell. Sci.* 110 (1997) 1147-1158
117. Wiekowski, M. et al.: Regulation of gene expression in preimplantation mouse embryos : effects of the zygotic clock and the first mitosis on promoter and enhancer activities. *Dev. Biol.* 147 (1991) 403-414
118. Wilmut, I., Schnieke, A. et al.: Viable offsprings derived from fetal and adult mammalian cells. *Nature* 385 (1997) 810-813
119. Worrall, D.M. et al.: Regulation of gene expression in the mouse oocyte and early preimplantation embryo: development changes in Sp1 + TATA box-binding protein TBP, *Development* 120 (8) (1994) 2347-57
120. Yaffe, M.P.: The machinery of mitochondrial inheritance and behavior. *Science* 283 (1999) 1493-1497
121. Yeom, Y.I. et al.: Germline regulatory element of Oct-4 specific for the totipotent cycle of embryonal cells. *Development* 122 (1996) 881-894
122. Yin, X.J. et al.: Effect of delayed enucleation on the developmental potential of nuclear-transferred oocytes receiving adult and fetal fibroblast cells. *Zygote* 10 (3) (2002) 217-22
123. Zernicka-Goetz, M. et al.: Cytoskeletal organization of rat oocytes during metaphase II arrest and following abortive activation: A study by confocal laser scanning microscopy. *Mol Reprod Dev* 35 (1993) 165-175
124. Zheng, Y. L. et al.: Effects of oocyte age, cumulus cells and injection methods on in vitro development of intracytoplasmic sperm injection rabbit embryos. *Zygote* 12 (2004) 75-80