

8 Literaturverzeichnis

- AERTS, L., HOLEMANS, K., VAN ASSCHE, F.A. (1990): Maternal diabetes during pregnancy: consequences for the offspring. *Diabetes and Metabolism Reviews*, **6**, 147-167
- AR, A., IFERGAN, O., FELDMAN, A., ZELIK, L., REIZIS, A. (2004): Possible role of nitric oxide emission from bird embryos. *Avian Poult. Biol. Rev.* **15** (3/4), 105-106
- ARAD, Z., MARDER, J. (1983): Acid-base regulation during thermal panting in the fowl (*Gallus domesticus*): Comparison between breeds. *Comp. Biochem. Physiol.* **74A**, 125-130
- BAPTISTA, C.A., KIRBY, M.L. (1997): The cardiac ganglia: cellular and molecular aspects. *Kaohsiung J. Med. Sci.* **13**, 42-54
- BARRÉ, H., BAILLY, L., ROUANET, J.L. (1987): Increased oxidative capacity in skeletal muscles from cold-acclimated ducklings: A comparison with rats. *Comp. Biochem. Physiol.* **88**(2), 519-522
- BLATTEIS, C.M. (1998): Body temperature. In: BLATTEIS, C.M. (Ed.), *Physiology and Pathophysiology of Temperature Regulation*, pp. 14-21. World Scientific, Singapore, New Jersey, London, Hong Kong
- BRÜCK, K. (1986): Basic mechanisms in the long-term and short-term adaptation. *J. therm. Biol.* **11**, 73-77
- BURMEISTER, A., HOLLAND, S., HÖCHEL, J., JANKE, O., NICHELMANN, M. (1997): Colonic temperature and temperature of the chorioallantoic fluid in chicken embryos; comparison, the pros and cons. In: TÖNHARDT, H., LEWIN, R. (Eds.), *III. International Workshop: Investigations of perinatal development on birds*. Freie Universität Berlin, pp. 241-249
- BURTON, F.G., TULLETT, S.G. (1985): Respiration of avian embryos. *Comp. Biochem. Physiol.* **82A**, 735-744
- BUYS, N., DEWIL, E., GONZALES, E., DECUYPERE, E. (1998): Different CO₂ levels during incubation interact with hatching time and ascites susceptibility in two broiler lines selected for different growth rate. *Avian Pathology*, **27**, 605-612
- CLARK, E.B., HU, N. (1990): Hemodynamics of the developing cardiovascular system. In: BOCKMANN, D.E., KIRBY, M.L. (Eds.), *Embryonic origin of the defective heart development*, *Ann. N.Y. Acad. Sci.* **601**, 41-47
- DECUYPERE, E. (1984): Incubation temperature in relation to postnatal performance in chickens. *Arch. exper. Vet. med.* **38**, 439-449
- DECUYPERE E., BUYSE J., BUYS N. (2000): Ascites in broiler chickens: exogenous and endogenous structural and functional causal factors. *World's Poultry Science Journal*, **56**, 367-377

- DEEMING, D.C. (2002): Incubation of eggs from our modern strains of chicken. *World Poultry*, **18**, 22-23
- DIETZ, M.W., VAN KAMPEN, M., VAN GRIENSVEN, M.J., VAN MOURIK, S. (1998): Daily energy budgets of avian embryos: The paradox of the plateau phase in egg metabolic rate. *Physiol. Zool.* **71**, 147–156
- DÖRNER, G. (1974): Environment-dependent brain differentiation and fundamental process of life. *Acta biol. med. germ.* **33**, 129-148
- DÖRNER, G. (1987): Die Bedeutung der hormonabhängigen Gehirnentwicklung für die Ontogenese. *Wiss. Zschr. HU* **36**, 586-595
- DÖRNER, G., PLAGEMANN, A. (1994): Perinatal hyperinsulinism as a possible predisposing factor for *diabetes mellitus*, obesity and enhanced cardiovascular risk in later life. *Hormones and Metabolic Research*, **26**, 213-221
- DUVAL, M. (1889): Etudes histologiques et morphologiques sur les annexes des embryons d'oiseau. *J. Anat. Paris* **20**, 201-2
- ECKERT, R. (1986): *Tierphysiologie*, Stuttgart ; New York; Thieme
- EPPLEY, Z.A., RUSSELL, B. (1995): Perinatal changes in avian muscle: implications from ultrastructure for the development of endothermy. *J. Morphol.* **225**, 357–367
- FIORINI, P. (1992): *Allgemeine und vergleichende Embryologie der Tiere*. Springer Verlag, Berlin, Heidelberg, New York, London, Paris, Tokyo, Hong Kong, Barcelona, Budapest, pp. 275-277
- FREEMAN, B.M. (1962): Gaseous metabolism in the domestic chicken. II. Oxygen consumption in the full-term and hatching embryo, with a note on a possible cause for "death in shell". *Br. Poult. Sci.* **3**, 63–72
- FREEMAN, B.M., VINCE, M.A. (1974): *Development of the Avian Embryo*. Chapman and Hall Ltd., London
- FUJITA, H., TANIZAWA, Y., HIURA, M. (1976): Ontogenesis of granula formation in adrenal chromaffin cells of the chick. In: COUPLAND, R.E., FUJITA, T. (Eds.), *Chromaffin, enterochromaffin and related cells*, Elsevier Amsterdam, pp. 191-208
- GIRARD, H. (1973): Atrial pressure in the chick embryo. *Am. J. Physiol.* **224**, 454-460
- GLOSSARY OF TERMS FOR THERMAL PHYSIOLOGY (2003): IUPS Thermal Commission. *Journal of Thermal Biology*, **28**, 75-106
- GOLDHAMMER, M.A. (2003): Ontogenetische Entwicklung rhythmischer Blutdruckschwankungen beim Hühnerembryo (*Gallus gallus f. domestica*) vom 12. Bebrütungstag bis zum Schlupf. Inaugural-Dissertation, Institut für Veterinär-Physiologie, Freie Universität Berlin

- GOTTLIEB, G., KUO, Z.Y. (1965): Development of behaviour in the duck embryo. *J. Comp. Physiol.* **59**, 183-188
- GRAV, H.J., BORCH-JOHNSON, B., DAHL, H.A., GABRIELSEN, G.W., STEEN, J.B. (1988): Oxidative capacity of tissues contributing to thermogenesis in eider (*Somateria mollissima*) ducklings: changes associated with hatching. *J. Comp. Physiol. B* **158**, 513-518
- HAMMOND S.M., BOETTCHER, S., CAUDY, A.A., KOBAYASHI, R., HANNON, G.J. (2001): Argonaute2, a link between genetic and biochemical analysis of RNAi. *Science* **Vol. 293**, No. **5532**, 1146-1150
- HERRMANN, S., NICHELMANN, M. (1991): Einfluß der Bruttemperatur auf physiologische und ethologische Temperaturregulationsmechanismen bei Moschusentenküken (*Cairina moschata*). *Verh. Dtsch. Zoolog. Ges.* **84**, 309
- HILAKIVI-CLARKE, L., CLARKE, R., LIPPMAN, M.E. (1994): Perinatal factors increase breast cancer risk. *Breast Cancer Res. Treat.* **31**, 273-284
- HÖCHEL, J. (1998): *Verlauf der Herzfrequenz bei Embryonen der Moschusente: Herausbildung ultra-, circa- und infradianer Rhythmen und Einfluß akustischer Reize*. Inaugural-Dissertation, Institut für Veterinär-Physiologie, Freie Universität Berlin
- HÖCHEL, J., NICHELMANN, M. (2001): Ontogeny of heart rate responses to exogenous melatonin in Muscovy duck and chicken embryos. *Life Sci.* **69**, 2295-2309
- HÖCHEL, J., AKIYAMA, R., MASUKO, T., PEARSON, J.T., NICHELMANN, M., TAZAWA, H. (1998): Development of heart rate irregularities in chick embryos. *Am. J. Physiol.* **275** (Heart Circ. Physiol. **44**), H527-H533
- HÖCHEL, J., PIROW, R., NICHELMANN, M., (2002): Development of heart rate responses to acoustic stimuli in Muscovy duck embryos. *Comp. Biochem. Physiol. Part A* **131**, 805-816
- HOLLAND, S. (1998): *Untersuchungen zum Einfluß der Umgebungstemperatur auf Herzfrequenz, Atemfrequenz, periphere Durchblutung und Temperatur der Vogelembryonen*. Inaugural-Disserstation, Institut für Veterinär-Physiologie der Freien Universität Berlin
- HOLLAND, S., HÖCHEL, J., BURMEISTER, A., JANKE, O., NICHELMANN, M. (1998): A method for measuring deep body temperature in avian embryos. *J. therm. Biol.* **23**, 123-129
- HÖRNIKE, H., (1987): Thermophysiologie. In: SCHEUNERT, A., TRAUTMANN, A. (Hrsg), *Lehrbuch der Veterinär-Physiologie*. Paul Parey Verlag
- HOUILLON, C. (1972): *Embryologie: Die Entwicklung der Organe, Organogenese*. Vieweg, Braunschweig
- HÜHNKE, A., TÖNHARDT, H. (2004): Oxygen deficiency and blood-gase-state in the chorio-allantoic vein in the chicken embryo. *Avian Poult. Biol. Rev.* **15** (3/4), 132-136

JANKE, O. (2002): *Die pränatale Entwicklung der Endothermie bei praecocialen Vögeln, dargestellt am Beispiel der Moschusente (Cairina moschata f. domestica) und des Haushuhnes (Gallus gallus f. domestica)*. Dissertation, Institut für Veterinärphysiologie, Freie Universität Berlin

JANKE, O., TZSCHENTKE, B., HÖCHEL, J., NICHELMANN, M. (2002): Metabolic responses of chicken and muscovy duck embryos to high incubation temperatures. *Comp. Biochem. Physiol. A.* **131**, 741-750

JANKE, O., MELENCHUK, E.V., TZSCHENTKE, B. (in preparation): Neuronal hypothalamic thermosensitivity in 4 weeks old Muscovy ducks in relation to the early ontogeny of the thermoregulatory center.

JONES, P.A., TAKAI, D. (2001): Role of DNA methylation in mammalian epigenetics. *Science* **Vol. 293, No. 5532**, 1068-1070

KEIBEL, K., ABRAHAM, K. (1990): *Normentafel zur Entwicklungsgeschichte des Huhnes (Gallus domesticus)*. Gustav Fischer Verlag, Jena

KHANDOKER, A.H., DZIALOWSKI, E.M, BURGGREN, W.W., TAZAWA, H. (2003): Cardiac rhythms of late pre-pipped and pipped chick embryos exposed to altered oxygen environments. *Comp. Biochem. Physiol.* **136**, 289-299

KLEMM, CH. (2002): *Bestimmung von Catecholaminen, Cortisol, 2,3-Diphosphoglycerat und Glucose im Blut von Entenembryonen (Cairina moschata) unter dem Einfluss verschiedener Inkubationstemperaturen sowie unter Berücksichtigung der Lage und des internal pipping der Embryonen*. Inaugural-Dissertation, Institut für Veterinär-Physiologie, Freie Universität Berlin

KOIDE, M., TUAN, R.S. (1989): Adrenergic regulation of calcium-deficient hypertension in chick embryos. *Am. J. Physiol.* **257**, 1900-1909

KÜNZEL, E. (1962): *Die Entwicklung des Hühnchens im Ei*. Paul Parey, Berlin und Hamburg

LELORIER, J., SHIDEMAN, F.E. (1975): Effect of ouabain on the innervated and noninnervated embryonic chick heart. *Can. J. Physiol. Pharmacol.* **53**, 1005-1006

LEWIN, R. (1997): *Entwicklung der vegetativen Beeinflussbarkeit der Herzfrequenz bei Hühnerembryonen (Gallus gallus f. domestica) unter besonderer Berücksichtigung ausgewählter Umgebungstemperaturen*. Dissertation, Institut für Veterinärphysiologie, Freie Universität Berlin

LOH, B., MAIER, I., WINAR, A., JANKE, O., TZSCHENTKE, B. (2004): Prenatal development of epigenetic adaptation processes in poultry: Changes in metabolic and neuronal thermoregulatory mechanisms. *Avian and Poult. Biol. Rev.*, **15**, 119-128

LORENZ, R.J. (1992): *Grundbegriffe der Biometrie*. Gustav Fischer Verlag, Stuttgart, Jena, New York

- MAIER, I. (2003): *The influence of different incubation temperatures on neuronal hypothalamic thermosensitivity in precocial bird embryos (Cairina moschata) at the last day of incubation*. Diplomarbeit, Institut für Biologie, Math.-Nat. Fak. I, Humboldt-Universität zu Berlin
- MARDER, J., BERNSTEIN, R. (1983): Heat balance of the partridge *Alectoris chukar* exposed to moderate, high and extreme thermal stress. *Comp. Biochem. Physiol.* **74 A**, 149–154
- MARJONIEMI, K., HOHTOLA, E. (2000): Does cold acclimation induce nonshivering thermogenesis in juvenile birds? Experiments with Pekin ducklings and Japanese quail chicks. *J. Comp. Physiol.* **170**, 537-543
- MCCARTY, L.P., LEE, W.C., SHIDEMAN, F.E. (1960): Measurement of the inotropic effects of drugs on the innervated and noninnervated embryonic chick heart. *J. Pharmacol. Exp. Ther.* **129**, 315-321
- MENNA, T.M., MORTOLA, J.P. (2002): Metabolic control of pulmonary ventilation in the developing chick embryo. *Respir Physiol Neurobiol.* **130**, 43-55
- MIYATA, S., ISHIYAMA, M., SHIBATA, M., NAKASHIMA, T., KIYOHARA, T. (1998): Infant cold exposure changes Fos expression to acute cold stimulation in adult hypothalamic brain regions. *Neurosci. Res.* **31**, 219-225
- MODREY, P. (1995): *Die postnatale Entwicklung der Temperaturregulation und des Stoffwechsels von Putenküken (Meleagris gallopavo) unter dem Einfluß der Bruttemperatur*. Dissertation, Math.-Nat. Fak., Heinrich-Heine-Universität Düsseldorf, Shaker Verlag, Aachen
- MULDER, A.L., VAN GOLDE, J.C., PRINZEN, F.W., BLANCO, C.E. (1998): Cardiac output distribution in response to hypoxia in the chick embryo in the second half of the incubation time. *J. Physiol.* **508**, 281-287
- MURZENOK, P., HOLLAND, S., NICHELMANN, M. (1997): Study of development of respiration in chicken embryos during internal pipping. In: TÖNHARDT, H., LEWIN, R. (Eds.), *III. International Workshop Investigations of Perinatal Development of Birds*, pp. 167-172. Institut für Veterinär-Physiologie, Freie Universität Berlin
- NAKASHIMA, T., PIERAU, FR.-K., SIMON, E., HORI, T. (1987): Comparison between hypothalamic thermoresponsive neurons from duck and rat slices. *Pflügers Arch.* **409**, 236-243
- NECHAEVA, M., TURPAEV, V. (2002): Rhythmic contractions in chick amnio-yolk sac and snake amnion during embryogenesis. *Comp. Biochem. Physiol. A.* **131(4)**, 861-70
- NECHAEVA, M., TÖNHARDT, H., HÜHNKE, A., MAKARENKO, I.G., TURPAEV, V. (2004): Effects of some environmental factors on the amnion rhythmic contractions in chick embryogenesis. *Avian Poult. Biol. Rev.* **15** (3/4): 137-144

- NICE, M.M. (1962): Development of behaviour in precocial birds. *Trans. Linn. Soc. N.Y.* **8**, 1-11
- NICHELMANN, M. (1983): Some characteristics of the biological optimum temperature. *J. therm. Biol.* **8**, 69-71
- NICHELMANN, M. (1989): Organismus-Umwelt Beziehung bei Nutztieren - Anpassungsformen. *Mh. Vet.-Med.* **44**, 737-741
- NICHELMANN, M. (1992): Verhaltensbiologische Probleme im perinatalen Zeitraum. In: NICHELMANN, M., TEMBROCK, G. (Eds.), *Verhaltensentwicklung*, pp.7-24. Akademie Verlag, Berlin
- NICHELMANN, M. (1999): Bedeutung der Klimafaktoren und der Klimaadaptation. In: HORST, P., REH, I. (Hrsg.), *Tierzucht in den Tropen und Subtropen*. Ulmer Verlag Stuttgart, pp. 35-48
- NICHELMANN, M., LYHS, L. (1976): Zur Bestimmung der biologisch optimalen Temperatur. *Mh. Vet. -Med.* **31**, 69-73
- NICHELMANN, M., TZSCHENTKE, B. (1995): Thermoneutrality: traditions, problems, alternatives. In: NAGASAKA, T., MILTON, A.S. (Eds.), *Body Temperature and Metabolism*, pp. 77-82. IPEC, Tokyo
- NICHELMANN, M., TZSCHENTKE, B. (1997): Ontogeny of thermoregulation during the prenatal period in birds. *Ann. NY Acad. Sci.* **813**, 78-86
- NICHELMANN, M., TZSCHENTKE, B., (1999): Thermoregulatory heat production in precocial avian embryos. *Ornis Fennica* **76**, 177-187
- NICHELMANN, M., TZSCHENTKE, B. (2003): Efficiency of thermoregulatory control elements in precocial avian embryos (Review). *Avian Poult. Biol. Rev.* **14**, 1-19
- NICHELMANN, M., MICHLER, I., KOCH, S., LYHS, L., GROSSKOPF, CH. (1977): Physiologische Grundlagen der Stallklimagegestaltung beim Mastgeflügel. 4. Mitteilung: Moschusenten (*Cairina moschata*). *Archiv für Tierzucht* **20**, 207-220
- NICHELMANN, M., LANGE, B., PIROW, R., LANGBEIN, J., HERRMANN, S. (1994): Avian thermoregulation during the perinatal period. In: ZEISBERGER, E., SCHÖNBAUM, E., LOMAX, P. (Eds.), *Thermal Balance in Health and Disease*. Advances in Pharmacological Science, Birkhäuser Verlag AG, Basel, pp. 167-173
- NICHELMANN, M., MURZENOK, P., HOLLAND, S. (1997): Development of heat loss mechanisms in avian embryos. In: GOURINE, V.N., NICHELMANN, M., KULCHITZKY, V.A., PASTUKHOV, Y.F. (Eds.), *Temperature control in health and disease*. Minsk, pp. 57-69
- NICHELMANN, M., BURMEISTER, A., JANKE, O., HÖCHEL, J., TZSCHENTKE, B. (1998): Avian embryonic thermoregulation: role of Q₁₀ in interpretation of endothermic reactions. *J. therm. Biol.* **23**, 369-376

- NICHELMANN, M., HÖCHEL, J., TZSCHENTKE, B. (1999): Biological rhythms in birds-development, insights and perspectives. *Comp. Biochem. Physiol.* **A 124**, 429-437
- PATTEN, B.M., KRAMER, T.C. (1933): The initiation of contraction of the embryonic chick heart. *Am. J. Anat.* **53**, 349-375
- PAULICK, A. (1993): *Einfluß der aktuellen Umgebungstemperatur auf den Energieumsatz von Moschusentenembryonen (Cairina moschata)*. Diplomarbeit, Institut für Biologie, Math.-Nat. Fak. I, Humboldt-Universität zu Berlin
- PENNISI, E. (2001): Behind the scenes of gene expression. *Science* **Vol. 293, No. 5532**, 1064-1067
- PETRONIS, A., PATERSON, A.D., KENNEDY, J.L. (1999): Schizophrenia: an epigenetic puzzle? *Schizophrenia Bull.* **25**, 639-655
- PETTIT, T.N., WHITTOW, G.C. (1982): The initiation of pulmonary respiration in a bird embryo: blood and air cell gas tensions. *Respir. Physiol.* **48**, 199-208
- PIIPER, J., TAZAWA, H., AR, A., UND RAHN, H. (1980): Analysis of chorioallantoic gas exchange in the chick embryo. *Respir. Physiol.* **39**, 373-284
- PIROW, R. (1995): *Entwicklung der Herztätigkeit im letzten Drittel der Embryonalentwicklung der Moschusente Cairina moschata*. Shaker, Aachen
- PLAGEMANN, A. (2004): Fetal programming' and 'functional teratogenesis': on epigenetic mechanisms and prevention of perinatally acquired lasting health risks. *J Perinat Med.* **32**, 297-305
- PLAGEMANN, A., HARDER, T., KOHLHOFF, R., ROHDE, W. DÖRNER, G. (1997): Glucose tolerance and insulin secretion in children of mothers with pregestational IDDM or gestational diabetes. *Diabetologia*, **40**, 1094-1100
- PRINZINGER, R. (1996): "Rund" um das Ei – Neues und Bekanntes aus verschiedenen Blickwinkeln. In: TÖNHARDT, H., LEWIN, R. (Eds.), *III. International Workshop: Investigations of perinatal development on birds*. Freie Universität Berlin, pp. 137–165
- PRINZINGER, R., DIETZ, V. (1995): Qualitative course of embryonic O₂-consumption in altricial and precocial birds. *Resp. Physiol.* **100**, 289–294
- PRINZINGER, R., SCHMIDT, M., DIETZ, V. (1995): Embryogeny of oxygen consumption in 13 altricial and precocial birds. *Respir. Physiol.* **100**, 283-287
- RAHN, H., PAGANELLI, C.V., AR, A. (1974): The avian egg: air-cell tension, metabolism and incubation time. *Respir. Physiol.* **22**, 297-309
- RIGGS, A.D., MARTIENSSEN, R.A., RUSSO, V.E.A. (1996): Introduction. In: RUSSO, V.E.A., MARTIENSSEN, R.A., RIGGS, A.D. (Eds.), *Epigenetic mechanisms of gene regulation*. Cold Spring harbor Laboratory Press, New York, p. 1

- ROLINK, V.V. (1970): *Bird embryology*. IPST, Jerusalem
- ROMANOFF, A.L. (1960): *The avian embryo*. The Macmillan Company, New York
- RUIJTENBEEK, K., LE NOBLE, F., JANSSEN, G.M., KESSELS, C.G., FAZZI, G.E., BLANCO, C.E., DE MEY, J.G. (2000): Chronic hypoxia stimulates periarterial sympathetic nerve development in chicken embryo. *Circulation*. **102**, 2892-2897
- RUITENBEEK, K., JANSSEN, B., KESSELS, L., JANSSEN, G.M.J., FAZZI, G., DE MEY, J.G., BLANCO, C.E. (2001): Chronic moderate hypoxia during embryonic development changes cardiovascular properties in 3-4 weeks old chickens. Abstract, Fetal and Neonatal Physiological Society
- RUIJTENBEEK, K., KESSELS, C.G., VILLAMOR, E., BLANCO, C.E., DE MEY, J.G. (2002) Direct effects of acute hypoxia on the reactivity of peripheral arteries of the chick embryo. *Am J. Physiol. Regul. Integr. Comp. Physiol.* **283**, R331-R338
- RÜSSE, I., SINOWATZ, F. (1998): *Lehrbuch der Embryologie der Haustiere*. Paul Parey Verlag
- RUSKO, H.K., TIKKANEN, H.O., PELTONEN, J.E. (2004): Altitude and endurance training. *J. Sports Sci.* **22**, 928-944
- SALLAGUNDALA, N., TZSCHENTKE, B., YAKIMOVA, K. (in Vorbereitung): Plasticity of chick hypothalamic neurons: effect of gaba-ergic substances.
- SAUERWEIN, K.H., HÖHNEKOPP, T. (1992): *SPSS/PC+4.0: Eine anwendungsorientierte Einführung zur professionellen Datenanalyse*. 2. Auflage, Addison-Wesley Bonn, München, Reading, Mass. (u.a.)
- SEIDL, W., SCHULTE, M., STEDING, G., KLUTH, D. (1981): A few remarks on the physiology of the chick embryo heart. *Folia Morphol.* **29**, 237-242
- SIMON, E. (1986): Nervous control of cold defense. In: HELLER, H.C., MUSACCHIA, X.J., WANG, L.C.H. (Eds.), *Living in the Cold: Physiological and Biochemical Adaptations*, pp. 141-150. Elsevier, New York
- SMITH, A.H., BURTON, R.R., BESCH, E.L. (1969): Development of the chick embryo at high altitude. *Fed. Proc.* **28**, 1092-1098
- STARCK, J.M. (1993): Evolution of avian ontogenesis. In: POWER, D.M. (Ed.), *Current Ornithology*, Vol. 10, pp. 275-366. Plenum Press, New York
- STARCK, J.M. (1998): Structural variants and invariants in avian embryonic and postnatal development. In: STARCK, J.M., RICKLEFS, R.E. (Eds.), *Avian growth and development*. Oxford University Press, New York, Oxford, pp. 59-88
- TARTER, R.E., VANYUKOV, M. (1994): Alcoholism: a developmental disorder. *J. Consult. Clin. Psychol.* **62**, 1096-1107

- TAZAWA, H. (1978): Gas transfer in the chorioallantois. In: PIPER, J. (Ed.), *Respiratory function in birds, adult and embryonic*, Springer-Verlag, Berlin, 274-291
- TAZAWA, H. (1980): Oxygen and CO₂ exchange and acid-base regulation in the avian embryo. *Amer. Zool.* **20**, 395-404
- TAZAWA, H. (1987): Embryonic respiration. In: SELLER, T.J. (Ed.), *Bird Respiration*, pp. 4-41. CRC Press. Inc.
- TAZAWA, H., RAHN, H. (1986): Tolerance of chick embryos to low temperatures in reference to the heart rate. *Comp. Biochem. Physiol.* **85 A**, 531-534
- TAZAWA, H., WAKAYAMA, H., TURNER, J.S., PAGANELLI, C.V. (1988): Metabolic compensation for gradual cooling in developing chick embryos. *Comp. Biochem. Physiol.* **89 A**, 125-129
- TAZAWA, H., HIRAGUCHI, T., KURODA, O., TULLETT, S.G., DEEMING, D.C. (1991): Embryonic heart rate during development of domesticated birds. *Physiol. Zool.* **64**, 1002-1022
- THIELE, T. (1994): *Einfluß der Bebrütungstemperatur auf die pränatale Temperaturregulation von Vogelembryonen, untersucht am Beispiel von Cairina moschata*. Diplomarbeit, Institut für Biologie, Math.-Nat. Fak. I, Humboldt-Universität zu Berlin
- TÖNHARDT, H., VALENTIN, A. (1993): Zur Entwicklung der sympathicoadrenalen Einheit im Embryo von Gallus Domesticus. Perinatale Anpassungsprozesse. In: NICHELMANN, M., TZSCHENTKE, B., PIROW, R. (Hrsg.), *1. Workshop: Perinatale Anpassungsprozesse*, Humboldt- Universität zu Berlin
- TZSCHENTKE, B. (2001): *Perinatale Ontogenese des Temperaturregulationssystems präcocialer Vögel*. Habilitationsschrift, Institut für Biologie, Math.-Nat. Fak. I, Humboldt-Universität zu Berlin
- TZSCHENTKE, B. (2002): Stimulate body functions of embryos and get them used to the posthatch environment. *World Poultry* **10**, 22-25
- TZSCHENTKE, B., NICHELMANN, M. (1999): Development of avian thermoregulatory system during the early postnatal period: development of the thermoregulatory set-point. *Ornis Fennica* **76**, 189-198
- TZSCHENTKE, B., BASTA, D. (2000): Development of hypothalamic neuronal thermosensitivity in birds during the perinatal period. *J. therm. Biol.* **25**, 119-123
- TZSCHENTKE, B., BASTA, D. (2002): Early development of neuronal hypothalamic thermosensitivity in birds: influence of epigenetic temperature adaptation. *Comp. Biochem. Physiol. A* **131**, 825-832
- TZSCHENTKE, B., BASTA, D., NICHELMANN, M. (2001): Epigenetic temperature adaptation in birds: peculiarities and similarities in comparison to acclimation. *News Biomed. Sci.* **1**, 26-31

TZSCHENTKE, B., TEKLU, Y., JANKE, O. (2003): The impact of incubation conditions on turkey health and production. In: HAFEZ, H.M. (Ed.), *Proceedings of the Meeting of the WPSA Working Group 10 (Turkey) on Turkey Production: Balance Act between Consumer Protection, Animal Welfare and Economic Aspects*, Berlin ,27th Feb. and 1st March 2003

TZSCHENTKE, B., BASTA, D., JANKE, O., MAIER, I. (2004): Characteristics of early development of body functions and epigenetic adaptation to the environment in poultry: focused on development of central nervous mechanisms. *Avian Poult. Biol. Rev.* **15 (3/4)**, 107-118

UNTERGASSER, G., HAYWARD, J.S. (1972): Development of thermoregulation in ducklings. *Can. J. Zool.* **50**, 1243-1250

VAN GOLDE, J., MULDER, T., STRAATEN, H.V., BLANCO, C.E. (1996): The chorioallantoic artery blood flow of the chick embryo from stage 34 to 43. *Pediatr. Res.* **40**, 867-871

VAN GOLDE, J., MULDER, T., BLANCO, C.E. (1997): Changes in Mean Chorioallantoic Artery Blood Flow and Heart Rate Produced by Hypoxia in the Developing Chick Embryo. *Pediatr. Res.* **42 (3)**, 293-298

VAN KAMPEN, M. (1984): Physiological responses of poultry to ambient temperatures. *Arch. exper. Vet. med.* **38**, 384–391

VINCE, M.A., TOLHURST, B.E. (1975): The establishment of lung ventilation in the avian embryo: The rate at which lungs become aerated. *Comp. Biochem. Physiol.* **52 A**, 331–337

VISSCHEDIJK, A.H. (1968): The air space and embryonic respiration. III. The balance between oxygen and carbon dioxide in the air space of the incubating chicken egg and its role in stimulating pipping. *Br. Poult. Sci.* **9**, 197

VLECK, C.M., HOYT, D.F., VLECK, D. (1979): Metabolism of avian embryos: Patterns in altricial and precocial birds. *Physiol. Zool.* **52**, 363–377

WANGENSTEEN, O.D. (1972): Gas exchange by a birds embryo. *Resp. Physiol.* **14**, 64-74

WANGENSTEEN, O.D., RAHN, H. (1970/71): Respiratory gas exchange by the avian embryo. *Resp. Physiol.* **11**, 31-45

WANGENSTEEN, O.D., WILSON, D., RAHN, H. (1970/71): Diffusion of gases across the shell of the hens egg. *Resp. Physiol.* **11**, 16-30

WHITTOW, G.C., TAZAWA, H. (1991): The early development of thermoregulation in birds. *Physiological Zoology* **64**, 1371-1390

WINDLE, W.F., BARCROFT, J. (1938): Some factors governing the initiation of respiration in the chick. *Am. J. Physiol.* **121**, 684

WITTMANN, J., PRECHTL, J. (1991): Respiratory funktions of catecholamines during the late period of avian development. *Respir. Physiol.* **83**, 375–386

YAHAV, S. (2000): Domestic fowl – strategies to confront extreme environmental conditions. *Avian Poult. Biol. Rev.* **11**, 81-95

YAHAV, S., PLAVNIK, I. (1999): Effect of early-stage thermal conditioning and food restriction on performance and thermotolerance of male broiler chickens. *Br. Poult. Sci.* **40**, 120-126

ZEISBERGER, E. (1999): From humoral fever to neuroimmunological control of fever. *J. Ther. Biol.* **24**, 287-326