

CURRICULUM VITAE

ERIK ROPSTAD

EDUCATION

1975-80	Veterinary training, Norwegian School of Veterinary Science
1983-86	Dr.scient. degree (PhD) <i>Main subject:</i> Animal reproduction <i>Title of thesis:</i> "Clinical chemical parameters related to reproduction in cattle" . Nordic research training programme: Veterinary epidemiology I-III
1989	University pedagogics training course
1992	Project leader training course
1996	EU authorization for handling of experimental animals
1988	Doctor of veterinary medicine (Dr.med.vet.) Title of thesis: "Constituents of blood and milk in relation to fertility, nutrition and metabolic status in dairy cows".
1994	Summer School on Veterinary Endocrinology, Utrecht, Netherlands.
2000	ECAR Diplomate of Animal Reproduction.

PROFESSIONAL EXPERIENCE

<i>Time period</i>	<i>Type of experience</i>	<i>Employer</i>
19/4-83 - 15/6-86	PhD-student	Dept Reprod & For, NSVS
15/6-86- 1/4-87	Research scientist	Dept Reprod & For, NSVS
1/4-87 -17/8-87	Clinician	Dept. Surgery, NSVS
7/8-87- 1/1-88	Research scientist	Dept. Reprod & For, NSVS
1/1-88- 1/1-90	Assistant professor	Dept. Reprod & For, NSVS
From 1/1 -90	Professor of anim. reprod.	Dept. Reprod & For, NSVS
1/1 -96 -31/12-00	Head of department + prof.	Dept. Reprod & For, NSVS
1/1-02 - 31/8-05	Prorector	NSVS
From 1/8-05	Professor of anim. reprod.	NSVS

TEACHING EXPERIENCE

Extensive experience in teaching clinical gynecology, reproductive endocrinology and ambulant clinic (large animals). Responsibility for conducting the final exam in Animal Reproduction for veterinary graduate students. Adviser for 6 completed PhD exams and presently supervising 4 PhD students and 2 master students. Prof Ropstad has organized several national and international postgraduate courses and seminars and been in the organizing committee for one international meeting. He is a member of EAEVE (European Association of Veterinary Education) standing evaluation committee.

ADMINISTRATIVE EXPERIENCE

As a professor I have responsibility for initiation of research within the field of animal reproduction and for the management of the hormone laboratory in Department of Production Animal Clinical Sciences, which at the moment employs 4 technicians. From 1996 through 2001 he was Head of Department. The department employed 35 people, including 20 scientific staff. In 2002 he was elected Prorector at NSVS. This position involved a main responsibility for research activities at the institution, membership in the board and in the management team of NSVS.

RESEARCH EXPERIENCE

As a professor Erik Ropstad has responsibility for initiation of research within the field of animal reproduction. He has experience in multidisciplinary research to address objectives within the fields of reindeer reproduction, nutrition, population dynamics and welfare. Another main focus in recent years has been studies on occurrence, levels and effects of environmental pollutants. The effects have been studied at various levels of biological organisation from the gonadal cell to the individual and population level. Special focus has been on potential impairment reproductive functions upon exposure during pregnancy and on population studies in the Arctic.

The research group led by prof. Ropstad has experience in both *in vitro* studies using isolated cells and organs, experimental species as well as field studies with marine mammals and ruminants. The experimental work done by the group has been positively acknowledged by recent publications in leading journals. Ropstad is responsible for the Hormone Laboratory at the NSVS which currently employs 3 technicians. He has organized several national and international postgraduate courses and seminars and been in the organizing committee for international meetings.

Ropstad's research group has recently received an international evaluation of the research activity covering the period 2001-2006. The group was graded "Excellent" on the following criteria: a) Scientific quality and productivity b) Relevance and impact c) Strategy and organisation.

ENGAGEMENT IN DEVELOPING COUNTRIES

Ropstad has been acting as a supervisor for the project TARP II at Sokoine University, Morogoro, Tanzania: "Improved cattle productivity through strategic feeding and reproductive health control in smallholder herds in Eastern Zone, Tanzania" 2002-2005.

CURRENT RESEARCH PROJECTS

"Endocrine disrupters (ED): Risk assessment for food quality and animal health". Acronym: EDFLAME. Partners: University of Life Science, Ås, Norway, Aberdeen University, McCaulay Land Use Institute, Glasgow University. NFR:158849/110, 2004-2008.

"Zebrafish as a model for effect studies of persistent organic pollutants (POPs) in aquatic ecosystems". Acronym: ZEBPOP. Partners: Oslo University, Freji Universiteit, Amsterdam. NFR:2006-2009

"Mechanisms behind toxic effects of POPs. A multidisciplinary, integrated project". Acronym: GENPOP, Partners: Norwegian Veterinary Institute, Aberdeen University, Glasgow University. NFR:175098/V40, 2006-2009.

"The mechanisms behind endocrine reproductive responses related to boar taint and toxic effects of POPs." In house project given by NVH to support strategic research. Partners: Three departments at NVH (PRODMED, MATINF, BASAM).

"Oestrus and oestrus behaviour in NRF and Holstein breeds in modern cattle housing systems." Partners: GENO, Hamar Norway; Frank Buckley, Moorepark Research institute, Ireland; Hans Erhardt, McCaulay Land Use Institute, Scotland NFR: 2005-2008. Hilary Dobson, Liverpool University, Veterinary Faculty.

"Health and Environment Network". Acronym: HENVINET. EU FP6. Multiple partners. Co-ordination actions. 2006-2010.

"Testikkelaktivitet hos râne relatert til androstenon og skatol i fett". Partners: Øystein Andresen, Norwegian School of Veterinary Science, Eli Grindflek, University of Life Sciences, Ås, Norway, Norsvin (Norwegian Pig Breeder Association), Christian Bendixen, Danish Institute of Agricultural Research. NFR-project. 2005-2008.

"Population dynamics in Svalbard reindeer". This project has been going on for twelve years. The first six years was funded by NFR, Norway and NERC, UK. At present the project is based on core funding from McCaulay Land Use Institute, Scotland, UNIS, Svalbard, Tromsø University and NVH. Partners: Steve Albon, Justin Irvine, Rolf Langvatn, Audun Stien, Rene van der Wahl.

SABRE. "Cutting edge genomics for sustainable animal breeding". EU 6FP Integrated Project, 23 partners.

SOBER 2. "Consequences of GNRH blockage and cross sex hormones on brain development during puberty in Gender Identity Disturbance. An Animal model". This project is under establishment and opens up a new branch of research within comparative medicine. Partners: NVH; The National Hospital, Glasgow University; Abbot Inc.

REPILEPSIA *"The mechanisms behind reproductive side effects induced by antiepileptic drugs"*. Acronym: . Project period: 2000-2008. Financed from strategic research funds at The National Hospital of Norway, from NVH, Jagellonian University, Poland and producers of antiepileptic drugs.

PEER REVIEWED SCIENTIFIC PAPERS SINCE 2003

2003

[Haave M., Ropstad E., Derocher AE., Lie E., Dahl E., Wiig Ø., Skaare JU., Jenssen B M](#) PCBs and reproductive hormones in female polar bears. Submitted: Environmental Health Perspectives (2003) 111:431-436.

[Erik Tauboll, Ewa L. Gregoraszczuk, Anna Kotodziej, Małgorzata Kajta, Erik Ropstad](#) Valproate inhibits the conversion of testosterone to estradiol and acts as an apoptotic agent in growing porcine ovarian follicular cells. *Epilepsia* 2003; 44 (8):1014-1018.

[Oskam IC, Ropstad E., Derocher A., Lie E., Wiig Ø., Wiger R., Larsen S., Dahl E., Skaare JU.](#) Organochlorines affect the major androgenic hormone, testosterone, in male polar bears (*Ursus maritimus*). *Journal of Toxicology and Environmental Health*. 2003 Part A, 66:2119-2139.

[Stien A., Irvine R.J., Langvatn R., Ropstad E.](#) Evaluation of ultrasound as a method for measuring subcutaneous fat in Svalbard reindeer. *Rangifer* 2003, 23, 71-73.

[Oskam, I.C., Ropstad, E., Lie, E., Derocher, A.E., Wiig, Ø., Dahl, E., Larsen, S., Wiger, R., Skaare, J.U.](#) 2003. Organochlorines affect the major androgenic hormone, testosterone in male polar bears (*Ursus maritimus*) at Svalbard. *J. Toxicol. Environ. Health A*: 66:2119-2139.

[Milner JM, Stien A., Irvine J., Albon SD, Langvatn R, Ropstad E.](#) Body condition in Svalbard reindeer and the use of blood parameters as indicators of condition and fitness. *Can. J. Zool.*, 2003, 81, 1566-1578.

2004

[Vahtiala S., Säkkinen H., Dahl E., Eloranta E., Beckers J-F, Ropstad E.](#) Ultrasonography in early pregnancy diagnosis and measurements of fetal size in reindeer (*Rangifer tarandus tarandus*) *Theriogenology* 2004 61: 785-795.

[Drion PV, Hanzen C, Wirth D, Beckers JF, Leboef B, Ropstad E, Balligand M, Bauvir E, Gabriel A, Collin B.](#) Physiologie de la reproduction et endocrinologie chez les cervides: une revue. *Ann. Med. Vet.*, 2003, 147, 291-313.

[Säkkinen H, Eloranta E, Vahtiala S, Puukka M, Timisjärvi J, Saarela S, Ropstad E.](#) Effects of magnesium oxide and magnesium alloy rumen boluses on plasma and urinary magnesium and calcium concentrations in reindeer (*Rangifer tarandus tarandus*). *Small Ruminant Research*, 2004, 54, 69-79.

- [Oskam, I.C., Ropstad, E., Lie, E., Derocher, A.E., Wiig, Ø., Dahl, E., Larsen, S., Skaare, J.U.](#) 2004. Organochlorines affect the steroid hormone cortisol in free-ranging polar bears (*Ursus maritimus*) at Svalbard, Norway. *J. Toxicol. Environ. Health A*: 67:959-977.
- [Oskam, I.C., Ropstad, E., Dahl, E., Smith, A.J., Tverdal, A., Andersen Berg, K., Skaare, J.U., Wiger, R.](#) 2004. Effects of PCB99 and PCB153 on spermatogenesis in young adult C57BL6 mice. *Reprod. Toxicol.* 2004 Dec;19(2):169-80.
- [Lyche, J.L., I.C. Oskam, J.U. Skaare, O. Reksen, T. Sweeney, E. Dahl, W. Farstad, E. Ropstad](#) (2003). Effects of gestational and lactational exposure to low doses of PCBs 126 and 153 on anterior pituitary and gonadal hormones and on puberty in female goats. *Reprod Toxicol.* 2004 Nov;19(1):87-95.
- [Lyche, J.L., J.U. Skaare, H.J. S. Larsen, E. Ropstad](#) (2004). Levels of PCB 126 and PCB 153 in plasma and tissues in goats exposed during gestation and lactation. *Chemosphere* 55, 621–629.
- [Lyche, J. L., H. J. S. Larsen, J. U. Skaare, A. Tverdal, E. Dahl, G.M. Johansen, E. Ropstad](#) (2004). Effects of perinatal exposure to low doses of PCB 153 and PCB 126 on lymphocyte proliferation and hematology in goat kids. *J Toxicol Environ Health A*. 2004 Jun 11;67(11):889-904.
- [Sakkinen H, Tornbeg J, Goddard PJ, Eloranta E, Ropstad E, Saarela S.](#) The effect of blood sampling method on indicators of physiological stress in reindeer (*Rangifer tarandus tarandus*). *Domest Anim Endocrinol.* 2004, 26(2):87-98.
- [Kornmatitsuk B, Dahl E, Ropstad E, Beckers JE, Gustafsson H, Kindahl H.](#) Endocrine profiles, haematology and pregnancy outcomes of late pregnant Holstein dairy heifers sired by bulls giving a high or low incidence of stillbirth. *Acta Vet Scand.* 2004;45(1-2):47-68.

2005

- [Ropstad E, Veiberg V, Säkkinen H, Dahl E, Kindahl H, Holand Ø, Beckers JF, Eloranta E.](#) (2005). Endocrinology of pregnancy and early pregnancy detection by reproductive hormones in reindeer (*Rangifer tarandus tarandus*). *Theriogenology* 63: 1775-1788.
- [Oskam, I.C., Lyche, J.L., Krogenaes, A., Thomassen, R., Skaare, J.U., Wiger, R., Dahl, E., Sweeney, T., Stien, A., Ropstad, E.](#) Effects of long-term maternal exposure to low doses of PCB126 and PCB153 on the reproductive system and related hormones of young male goats.. *Reproduction.* 2005 Nov;130(5):731-42.
- [Sakkinen H, Tverdal A, Eloranta E, Dahl E, Holand O, Saarela S, Ropstad E.](#) Variation of plasma protein parameters in four free-ranging reindeer herds and in captive reindeer under defined feeding conditions. *Comp Biochem Physiol A Mol Integr Physiol.* 2005 Dec;142(4):503-11.
- [Sakkinen H, Thornberg J, Goddard PJ, Eloranta E, Dahl E, Ropstad E Saarela S.](#) Adrenal responsiveness of reindeer (*Rangifer tarandus tarandus*) to intravenously administered ACTH. *Animal Science* 81 (3):399-402. 2005.
- [Kanuya NL, Matiko MK, Kessy BM, Mgongo FO, Ropstad E, Reksen O.](#) A study on reproductive performance and related factors of zebu cows in pastoral herds in a semi-arid area of Tanzania. *Theriogenology.* 2006 Jun;65(9):1859-74
- [Haugan T, Reksen O, Grohn YT, Kommisrud E, Ropstad E, Sehested E.](#) Seasonal effects of semen collection and artificial insemination on dairy cow conception. *Anim Reprod Sci.* 2005 Nov; 90(1-2):57-71.

2006

- [Lyche J. L., H. J. S. Larsen, J. U. Skaare, E. Ropstad](#) (2005). Perinatal exposure to low doses of PCB 153 and PCB 126 affects maternal and neonatal immunity in goat kids. *J Toxicol Environ Health A*. 2006 Jan; 69(1):139-58.
- [Ropstad E, Oskam IC, Lyche JL, Larsen HJ, Lie E, Wiger R, Haave M, Skaare JU.](#) Endocrine Disruption Induced by Organochlorines (OCs): Field Studies And Experimental Models. *J Toxicol Environ Health A*. 2006 Jan; 69(1):53-76.
- [Verreault J, Letcher RJ, Ropstad E, Dahl E, Gabrielsen GW.](#) In press. Organohalogen contaminants and reproductive hormones in incubating glaucous gulls (*Larus hyperboreus*) from the Norwegian Arctic. *Environmental Toxicology and Chemistry*. Environmental Toxicology and Chemistry, Vol. 25, No. 11, pp. 2990–2996, 2006
- [Haugejorden G, Waage S, Dahl E, Karberg K, Beckers JF, Ropstad E.](#) Pregnancy associated glycoproteins (PAG) in postpartum cows, ewes, goats and their offspring. *Theriogenology.* 2006 Nov;66(8):1976-84. Epub 2006 Jul 25
- [Taubøll E, Gregoraszczuk EL, Tworzydło A, Wójtowicz AK, Ropstad E.](#) Comparison of reproductive effects of levetiracetam and valproate studied in prepubertal porcine ovarian follicular cells. *Epilepsia.* 2006 Sep;47(9):1580-3.
- [Ropstad E.](#) Endocrine disrupters in domestic animals. The Norwegian Academy of Science and Letters. *Endocrine Disrupters. Occurrence in the bioenvironment and possible effects in animals and humans.* In: *Endocrine Disrupting Chemicals*, T. Grotmol, A. Bernhoft, G.S. Eriksen and T.P. Flaten, eds. Oslo: The Norwegian Academy of Science and Letters, 2006. Oslo, 13-14 October, 2005.
- [Larsen HJS, Hermansen L, Johansen GM, Gutleb AC, Lie E, Skaare JU, Ropstad E.](#) Effect of perinatal exposure to PCB153 and PCB118 on the specific immune response in lambs. Short paper. *Organohalogen Compounds.*
- [Gregoraszczuk EL, Streciwilk A, Wójtowicz A, Berg V, Lie E, Ropstad E.](#) A possible role for PCB153 in a hormesis-like dose-response curve for steroid secretion by ovarian follicular cells exposed to a real-life mixture of POPs. Short paper. *Organohalogen Compounds.*
- [Gutleb AC, Andersen IL, Erhard HW, Skaare JU, Ropstad E.](#) *Intrauterine PCB exposure alters sexually dimorphic behaviour in lambs (Ovis aries) in a fear related paradigm.* Short paper. *Organohalogen Compounds.*
- [Gregoraszczuk EL, Streciwilk A, Wójtowicz A, Berg V, Skaare J U, Ropstad E.](#) A preliminary characterisation of steroid secretion following exposure of ovarian follicular cells to a real-life mixture of POPs extracted from Atlantic cod liver oil. Short paper. *Organohalogen Compounds.*
- [Lyche JL, Skaare JU, Larsen HJS, Dahl E, Johansen GM, Oskam I, Reksen O, Tverdal A, Sweeney T, Ropstad E.](#) Perinatal exposure to PCB 153 and PCB 126 affects immune function and reproduction in goats. Submitted: *Organohalogen Compounds.*
- [Lundberg R, Lyche JL, Ropstad E, Rönn M, Skaare JU, Larsson S, Örborg J, Lind PM.](#) Effects of in utero and lactational exposure to low doses of PCB 126 and PCB 153 on bone tissue in female goat offspring. *Toxicology.* 2006 Nov 10;228(1):33-40. Epub 2006 Aug 22.
- [Kanuya NL, Matiko MK, Nkya R, Bittgeko SBP, Mgasa MN, Reksen O, Ropstad E.](#) Seasonal changes in nutritional status and reproductive performance of Zebu cows kept under a traditional agro-pastoral system in Tanzania *Trop Anim Health Prod* (2006) 38:511–519

2007

- [Tranquerud C, Grøndalen J, Indrebø A, Tverdal A, Ropstad E, Moe L.](#) A longitudinal study on growth variables in dogs of four large breeds raised in domestic environments. *J Anim Sci.* 2007 Jan;85(1):76-83.
- [Tranquerud C, Meuwissen T, Ropstad E, Indrebø A, Grøndalen J, Moe L.](#) Risk factors affecting metaphyseal irregularities in the radius and ulna of growing Newfoundland dogs. *J Anim Sci.* 2007 Oct;85(10):2437-44. Epub 2007 Jun 12.
- [Haugan T, Grohn YT, Kommisrud E, Ropstad E, Reksen O.](#) Effects of sperm concentration at semen collection and storage period of frozen semen on dairy cow conception. *Anim Reprod Sci.* 2007 Jan; 97(1-2):1-11. Epub 2006 Feb 7.

[Verreault J, Bech C, Letcher RJ, Ropstad E, Dahl E, Gabrielsen GW.](#) Organohalogen contamination in breeding glaucous gulls from the Norwegian Arctic: Associations with basal metabolism and circulating thyroid hormones. *Environ Pollut.* 2007 Jan;145(1):138-45. Epub 2006 May 19.

[Svalheim S, Taubøll E, Surdova K, Ormel L, Dahl E, Aleksandersen M, McNeilly A, Gjerstad L, Ropstad E.](#) Long-term levetiracetam treatment affects reproductive endocrine function in female Wistar rats. *Seizure.* 2007 Dec 21; [Epub ahead of print]

[Gregoraszczyk EL, Milczarek K, Wójtowicz AK, Berg V, Skaare JU, Ropstad E.](#) Steroid secretion following exposure of ovarian follicular cells to three different natural mixtures of persistent organic pollutants (POPs). *Reprod Toxicol.* 2008 Jan;25(1):58-66.

[Prestrud KW, Asbakk K, Fuglei E, Mørk T, Stien A, Ropstad E, Tryland M, Gabrielsen GW, Lydersen C, Kovacs K, Loonen M, Sagerup K, Oksanen A.](#) Serosurvey for *Toxoplasma gondii* in arctic foxes and source species of infection in the high Arctic. *Veterinary Parasitology* 150 (2007) 6–12

*[Lind PM, Colleen E, Örborg J, Larsson S, Skaare JU, Aleksandersen M, Gutleb AC, Ropstad E.](#) 2007 Effects of in utero and lactational exposure to pcb 118 and pcb 153 on bone tissue in lambs (*ovies aries*). *Organohalogen compounds.* 69.

2008

[Gregoraszczyk EL, Ptak A, Karniewska M, Ropstad E.](#)

Action of defined mixtures of PCBs, p,p'-DDT and its metabolite p,p'-DDE, on co-culture of porcine theca and granulosa cells: Steroid secretion, cell proliferation and apoptosis. *Reprod Toxicol.* 2008 Oct;26(2):170-4. Epub 2008 Jul 22.

[Gregoraszczyk EL, Rak A, Kawalec K, Ropstad E.](#)

Steroid secretion following exposure of ovarian follicular cells to single congeners and defined mixture of polybrominateddibenzoethers (PBDEs), p,p'-DDT and its metabolite p,p'-DDE. *Toxicol Lett.* 2008 May 5;178(2):103-9. Epub 2008 Mar 8.

[Gregoraszczyk EL, Milczarek K, Wójtowicz AK, Berg V, Skaare JU, Ropstad E.](#)

Steroid secretion following exposure of ovarian follicular cells to three different natural mixtures of persistent organic pollutants (POPs). *Reprod Toxicol.* 2008 Jan;25(1):58-66. Epub 2007 Oct 9.

[Garmo RT, Refsdal AO, Karlberg K, Ropstad E, Waldmann A, Beckers JF, Reksen O.](#)

Pregnancy incidence in Norwegian red cows using nonreturn to estrus, rectal palpation, pregnancy-associated glycoproteins, and progesterone. *J Dairy Sci.* 2008 Aug;91(8):3025-33.

[Gregoraszczyk EL, Rak A, Kawalec K, Ropstad E.](#)

Steroid secretion following exposure of ovarian follicular cells to single congeners and defined mixture of polybrominateddibenzoethers (PBDEs), p,p'-DDT and its metabolite p,p'-DDE.

Toxicol Lett. 2008 May 5;178(2):103-9. Epub 2008 Mar 8.

[Krogenaes AK, Taubøll E, Stien A, Oskam IC, Lyche JL, Dahl E, Thomassen RF, Sweeney T, Ropstad E.](#)

Valproate affects reproductive endocrine function, testis diameter and some semen variables in non-epileptic adolescent goat bucks. *Theriogenology.* 2008 Jul 1;70(1):15-26. Epub 2008 Apr 3.

[Oskam IC, Ropstad E, Andersen Berg K, Fredriksen B, Larsen S, Dahl E, Andresen O.](#)

Testicular germ cell development in relation to 5alpha-androstenone levels in pubertal entire male pigs. *Theriogenology.* 2008 May;69(8):967-76. Epub 2008 Mar 24.

[Matiko MK, Kanuya NL, Waldmann A, Ropstad E, Reksen O.](#)

Environmental constraints on post-partum ovarian activity in Tanzanian Zebu cows. *Theriogenology.* 2008 Apr 15;69(7):896-904. Epub 2008 Mar 17.

[Zamaratskaia G, Oskam IC, Ropstad E, Tajet H, Dahl E, Andresen O.](#)

Effects of hCG stimulation on hepatic activities of cytochromes P450E1 and P450A2 in pubertal male pigs. *Reprod Domest Anim.* 2008 Apr;43(2):147-52.

[Svalheim S, Taubøll E, Surdova K, Ormel L, Dahl E, Aleksandersen M, McNeilly A, Gjerstad L, Ropstad E.](#)

Long-term levetiracetam treatment affects reproductive endocrine function in female Wistar rats. *Seizure.* 2008 Mar;17(2):203-9. Epub 2007 Dec 26.

[Gregoraszczyk EL, Milczarek K, Wójtowicz AK, Berg V, Skaare JU, Ropstad E.](#)

Steroid secretion following exposure of ovarian follicular cells to three different natural mixtures of persistent organic pollutants (POPs). *Reprod Toxicol.* 2008 Jan;25(1):58-66. Epub 2007 Oct 9.

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[Garmo RT, Ropstad E, Havrevoll Ø, Thuen E, Steinshamn H, Waldmann A, Reksen O.](#)

Commencement of luteal activity in three different selection lines for milk yield and fertility in Norwegian Red cows. *J Dairy Sci.* 2009 May;92(5):2159-65.

[Gregoraszczyk EL, Ptak A, Skaare JU, Mularz K, Chmielowiec A, Wójtowicz A, Ropstad E.](#)

Mechanisms of action of two different natural mixtures of persistent organic pollutants (POPs) in ovarian follicles. *Xenobiotica.* 2009 Jan;39(1):80-9.

[Zimmer KE, Gutleb AC, Lyche JL, Dahl E, Oskam IC, Krogenaes A, Skaare JU, Ropstad E.](#)

Altered stress-induced cortisol levels in goats exposed to polychlorinated biphenyls (PCB 126 and PCB 153) during fetal and postnatal development. *J Toxicol Environ Health A.* 2009;72(3-4):164-72.

[Nourizadeh-Lillabadi R, Lyche JL, Almaas C, Stavik B, Moe SJ, Aleksandersen M, Berg V, Jakobsen KS, Stenseth NC, Skåre JU, Alestrøm P, Ropstad E.](#)

Transcriptional regulation in liver and testis associated with developmental and reproductive effects in male zebrafish exposed to natural mixtures of persistent organic pollutants (POP). *J Toxicol Environ Health A.* 2009;72(3-4):112-30.

[Gregoraszczyk EL, Ptak A, Karniewska M, Ropstad E.](#) Action of defined mixtures of PCBs, p,p'-DDT and its metabolite p,p'-DDE, on co-culture of porcine theca and granulosa cells: steroid secretion, cell proliferation and apoptosis. *Reprod Toxicol.* 2008 Oct;26(2):170-4. Epub 2008 Jul 22.

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Pregnancy incidence in Norwegian red cows using nonreturn to estrus, rectal palpation, pregnancy-associated glycoproteins, and progesterone. *J Dairy Sci.* 2008 Aug;91(8):3025-33.