

- 1: Tofighi R, Wan Ibrahim WN, Rebellato P, Andersson PL, Uhlén P, Ceccatelli S. Non-Dioxin-like Polychlorinated Biphenyls Interfere with Neuronal Differentiation of Embryonic Neural Stem Cells. *Toxicol Sci.* 2011 Nov;124(1):192-201. Epub 2011 Sep 9. PubMed PMID: 21908764.
- 2: Tofighi R, Moors M, Bose R, Ibrahim WN, Ceccatelli S. Neural stem cells for developmental neurotoxicity studies. *Methods Mol Biol.* 2011;758:67-80. PubMed PMID: 21815059.
- 3: Aschner M, Onishchenko N, Ceccatelli S. Toxicology of alkylmercury compounds. *Met Ions Life Sci.* 2010;7:403-34. Epub 2010 Jan 30. Review. PubMed PMID: 20877814.
- 4: Spulber S, Rantamäki T, Nikkilä O, Castrén E, Weihe P, Grandjean P, Ceccatelli S. Effects of maternal smoking and exposure to methylmercury on brain-derived neurotrophic factor concentrations in umbilical cord serum. *Toxicol Sci.* 2010 Oct;117(2):263-9. Epub 2010 Jul 14. PubMed PMID: 20631062; PubMed Central PMCID: PMC2940410.
- 5: Onishchenko N, Fischer C, Wan Ibrahim WN, Negri S, Spulber S, Cottica D, Ceccatelli S. Prenatal exposure to PFOS or PFOA alters motor function in mice in a sex-related manner. *Neurotox Res.* 2011 Apr;19(3):452-61. Epub 2010 May 29. PubMed PMID: 20512442.
- 6: Ceccatelli S, Daré E, Moors M. Methylmercury-induced neurotoxicity and apoptosis. *Chem Biol Interact.* 2010 Nov 5;188(2):301-8. Epub 2010 May 4. Review. PubMed PMID: 20399200.
- 7: Tofighi R, Johansson C, Goldoni M, Ibrahim WN, Gogvadze V, Mutti A, Ceccatelli S. Hippocampal neurons exposed to the environmental contaminants methylmercury and polychlorinated biphenyls undergo cell death via parallel activation of calpains and lysosomal proteases. *Neurotox Res.* 2011 Jan;19(1):183-94. Epub 2010 Feb 19. PubMed PMID: 20169435.
- 8: Bose R, Moors M, Tofighi R, Cascante A, Hermanson O, Ceccatelli S. Glucocorticoids induce long-lasting effects in neural stem cells resulting in senescence-related alterations. *Cell Death Dis.* 2010 Nov 4;1:e92. PubMed PMID: 21368868; PubMed Central PMCID: PMC3032322.
- 9: Moors M, Vudattu NK, Abel J, Krämer U, Rane L, Ulfig N, Ceccatelli S, Seyfert-Margolies V, Fritsche E, Maeurer MJ. Interleukin-7 (IL-7) and IL-7 splice variants affect differentiation of human neural progenitor cells. *Genes Immun.*

2010 Jan;11(1):11-20. Epub 2009 Oct 22. PubMed PMID: 19847194.

10: Aschner M, Ceccatelli S. Are neuropathological conditions relevant to ethylmercury exposure? *Neurotox Res.* 2010 Jul;18(1):59-68. Epub 2009 Sep 16. Review. PubMed PMID: 19756911.

11: Shi TJ, Huang P, Mulder J, Ceccatelli S, Hokfelt T. Expression of p-Akt in sensory neurons and spinal cord after peripheral nerve injury. *Neurosignals.* 2009;17(3):203-12. Epub 2009 Apr 4. PubMed PMID: 19346757.

12: Poli D, Caglieri A, Goldoni M, Castoldi AF, Coccini T, Roda E, Vitalone A, Ceccatelli S, Mutti A. Single step determination of PCB 126 and 153 in rat tissues by using solid phase microextraction/gas chromatography-mass spectrometry: Comparison with solid phase extraction and liquid/liquid extraction. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2009 Mar 15;877(8-9):773-83. Epub 2009 Feb 11. PubMed PMID: 19243998.

13: Akanda N, Tofighi R, Brask J, Tamm C, Elinder F, Ceccatelli S. Voltage-dependent anion channels (VDAC) in the plasma membrane play a critical role in apoptosis in differentiated hippocampal neurons but not in neural stem cells. *Cell Cycle.* 2008 Oct;7(20):3225-34. Epub 2008 Oct 20. PubMed PMID: 18927501.

14: Onishchenko N, Karpova N, Sabri F, Castrén E, Ceccatelli S. Long-lasting depression-like behavior and epigenetic changes of BDNF gene expression induced by perinatal exposure to methylmercury. *J Neurochem.* 2008 Aug;106(3):1378-87. Epub 2008 May 15. PubMed PMID: 18485098.

15: Castoldi AF, Onishchenko N, Johansson C, Coccini T, Roda E, Vahter M, Ceccatelli S, Manzo L. Neurodevelopmental toxicity of methylmercury: Laboratory animal data and their contribution to human risk assessment. *Regul Toxicol Pharmacol.* 2008 Jul;51(2):215-29. Epub 2008 Mar 25. Review. PubMed PMID: 18482784.

16: Castoldi AF, Johansson C, Onishchenko N, Coccini T, Roda E, Vahter M, Ceccatelli S, Manzo L. Human developmental neurotoxicity of methylmercury: impact of variables and risk modifiers. *Regul Toxicol Pharmacol.* 2008 Jul;51(2):201-14. Epub 2008 Feb 13. Review. PubMed PMID: 18367301.

17: Tamm C, Duckworth JK, Hermanson O, Ceccatelli S. Methylmercury inhibits differentiation of rat neural stem cells via Notch signalling. *Neuroreport.* 2008 Feb 12;19(3):339-43. PubMed PMID: 18303578.

18: Tofighi R, Joseph B, Xia S, Xu ZQ, Hamberger B, Hökfelt T, Ceccatelli S. Galanin decreases proliferation of PC12 cells and induces apoptosis via its

subtype 2 receptor (GalR2). *Proc Natl Acad Sci U S A*. 2008 Feb 19;105(7):2717-22. Epub 2008 Feb 12. PubMed PMID: 18272487; PubMed Central PMCID: PMC2268202.

19: Tamm C, Zhivotovsky B, Ceccatelli S. Caspase-2 activation in neural stem cells undergoing oxidative stress-induced apoptosis. *Apoptosis*. 2008 Mar;13(3):354-63. PubMed PMID: 18181021.

20: Goldoni M, Caglieri A, Poli D, Vettori MV, Ceccatelli S, Mutti A. Methylmercury at low doses modulates the toxicity of PCB153 on PC12 neuronal cell line in asynchronous combination experiments. *Food Chem Toxicol*. 2008 Feb;46(2):808-11. Epub 2007 Sep 29. PubMed PMID: 17980472.

21: Tamm C, Sabri F, Ceccatelli S. Mitochondrial-mediated apoptosis in neural stem cells exposed to manganese. *Toxicol Sci*. 2008 Feb;101(2):310-20. Epub 2007 Oct 31. PubMed PMID: 17977900.

22: Ceccatelli S, Tamm C, Zhang Q, Chen M. Mechanisms and modulation of neural cell damage induced by oxidative stress. *Physiol Behav*. 2007 Sep 10;92(1-2):87-92. Epub 2007 May 24. PubMed PMID: 17628619.

23: Johansson C, Castoldi AF, Onishchenko N, Manzo L, Vahter M, Ceccatelli S. Neurobehavioural and molecular changes induced by methylmercury exposure during development. *Neurotox Res*. 2007 Apr;11(3-4):241-60. Review. PubMed PMID: 17449462.

24: Onishchenko N, Tamm C, Vahter M, Hökfelt T, Johnson JA, Johnson DA, Ceccatelli S. Developmental exposure to methylmercury alters learning and induces depression-like behavior in male mice. *Toxicol Sci*. 2007 Jun;97(2):428-37. Epub 2007 Jan 4. PubMed PMID: 17204583.

25: Johansson C, Tofighi R, Tamm C, Goldoni M, Mutti A, Ceccatelli S. Cell death mechanisms in AtT20 pituitary cells exposed to polychlorinated biphenyls (PCB 126 and PCB 153) and methylmercury. *Toxicol Lett*. 2006 Dec 15;167(3):183-90. Epub 2006 Sep 22. PubMed PMID: 17049763.

26: Jurewicz J, Hanke W, Johansson C, Lundqvist C, Ceccatelli S, van den Hazel P, Saunders M, Zetterström R. Adverse health effects of children's exposure to pesticides: what do we really know and what can be done about it. *Acta Paediatr Suppl*. 2006 Oct;95(453):71-80. Review. PubMed PMID: 17000573.

27: Lundqvist C, Zuurbier M, Leijds M, Johansson C, Ceccatelli S, Saunders M, Schoeters G, ten Tusscher G, Koppe JG. The effects of PCBs and dioxins on child health. *Acta Paediatr Suppl*. 2006 Oct;95(453):55-64. Review. PubMed PMID: 17000571.

28: Ronchetti R, Zuurbier M, Jesenak M, Koppe JG, Ahmed UF, Ceccatelli S, Villa MP. Children's health and mercury exposure. *Acta Paediatr Suppl.* 2006 Oct;95(453):36-44. Review. PubMed PMID: 17000568.

29: van den Hazel P, Zuurbier M, Babisch W, Bartonova A, Bistrup ML, Bolte G, Busby C, Butter M, Ceccatelli S, Fucic A, Hanke W, Johansson C, Kohlhuber M, Leijds M, Lundqvist C, Moshhammer H, Naginiene R, Preece A, Ronchetti R, Salines G, Saunders M, Schoeters G, Stilianakis N, ten Tusscher G, Koppe JG. Today's epidemics in children: possible relations to environmental pollution and suggested preventive measures. *Acta Paediatr Suppl.* 2006 Oct;95(453):18-25. PubMed PMID: 17000565.

30: Vahter M, Akesson A, Lidén C, Ceccatelli S, Berglund M. Gender differences in the disposition and toxicity of metals. *Environ Res.* 2007 May;104(1):85-95. Epub 2006 Sep 22. Review. PubMed PMID: 16996054.

31: Tofighi R, Tillmark N, Daré E, Aberg AM, Larsson JE, Ceccatelli S. Hypoxia-independent apoptosis in neural cells exposed to carbon monoxide in vitro. *Brain Res.* 2006 Jul 7;1098(1):1-8. Epub 2006 Jun 13. PubMed PMID: 16777078.

32: Vettori MV, Goldoni M, Caglieri A, Poli D, Folesani G, Ceccatelli S, Mutti A. Antagonistic effects of methyl-mercury and PCB153 on PC12 cells after a combined and simultaneous exposure. *Food Chem Toxicol.* 2006 Sep;44(9):1505-12. Epub 2006 Apr 26. PubMed PMID: 16757078.

33: Shi TJ, Li J, Dahlström A, Theodorsson E, Ceccatelli S, Decosterd I, Pedrazzini T, Hökfelt T. Deletion of the neuropeptide Y Y1 receptor affects pain sensitivity, neuropeptide transport and expression, and dorsal root ganglion neuron numbers. *Neuroscience.* 2006 Jun 19;140(1):293-304. Epub 2006 Mar 29. PubMed PMID: 16564642.

34: Tamm C, Duckworth J, Hermanson O, Ceccatelli S. High susceptibility of neural stem cells to methylmercury toxicity: effects on cell survival and neuronal differentiation. *J Neurochem.* 2006 Apr;97(1):69-78. Epub 2006 Mar 8. PubMed PMID: 16524380.

35: Shi TJ, Hua XY, Lu X, Malkmus S, Kinney J, Holmberg K, Wirz S, Ceccatelli S, Yaksh T, Bartfai T, Hökfelt T. Sensory neuronal phenotype in galanin receptor 2 knockout mice: focus on dorsal root ganglion neurone development and pain behaviour. *Eur J Neurosci.* 2006 Feb;23(3):627-36. PubMed PMID: 16487144.

36: Chen M, Tofighi R, Bao W, Aspevall O, Jahnukainen T, Gustafsson LE, Ceccatelli S, Celsi G. Carbon monoxide prevents apoptosis induced by uropathogenic *Escherichia coli* toxins. *Pediatr Nephrol.* 2006 Mar;21(3):382-9.

Epub 2005 Dec 31. PubMed PMID: 16388391.

37: Elinder F, Akanda N, Tofighi R, Shimizu S, Tsujimoto Y, Orrenius S, Ceccatelli S. Opening of plasma membrane voltage-dependent anion channels (VDAC) precedes caspase activation in neuronal apoptosis induced by toxic stimuli. *Cell Death Differ.* 2005 Aug;12(8):1134-40. PubMed PMID: 15861186.

38: Huang P, Tofighi R, Emgard M, Ceccatelli S. Cell death induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) in AtT-20 pituitary cells. *Toxicology.* 2005 Feb 28;207(3):391-9. PubMed PMID: 15664267.

39: Vettori MV, Caglieri A, Goldoni M, Castoldi AF, Darè E, Alinovi R, Ceccatelli S, Mutti A. Analysis of oxidative stress in SK-N-MC neurons exposed to styrene-7,8-oxide. *Toxicol In Vitro.* 2005 Feb;19(1):11-20. PubMed PMID: 15582351.

40: Chen M, Bao W, Ceccatelli S, Celsi G. Prenatal exposure to high level of glucocorticoids increases the susceptibility of renal proximal tubular cells to apoptosis induced by uropathogenic *Escherichia coli* toxins. *Am J Nephrol.* 2004 Sep-Oct;24(5):497-502. Epub 2004 Sep 8. PubMed PMID: 15353912.

41: Daré E, Tofighi R, Nutt L, Vettori MV, Emgård M, Mutti A, Ceccatelli S. Styrene 7,8-oxide induces mitochondrial damage and oxidative stress in neurons. *Toxicology.* 2004 Sep 1;201(1-3):125-32. PubMed PMID: 15297027.

42: Chen M, Bao W, Aizman R, Huang P, Aspevall O, Gustafsson LE, Ceccatelli S, Celsi G. Activation of extracellular signal-regulated kinase mediates apoptosis induced by uropathogenic *Escherichia coli* toxins via nitric oxide synthase: protective role of heme oxygenase-1. *J Infect Dis.* 2004 Jul 1;190(1):127-35. Epub 2004 Jun 2. PubMed PMID: 15195252.

43: Tamm C, Robertson JD, Sleeper E, Enoksson M, Emgård M, Orrenius S, Ceccatelli S. Differential regulation of the mitochondrial and death receptor pathways in neural stem cells. *Eur J Neurosci.* 2004 May;19(10):2613-21. PubMed PMID: 15147295.

44: Fetissov SO, Huang P, Zhang Q, Mimura J, Fujii-Kuriyama Y, Rannug A, Hökfelt T, Ceccatelli S. Expression of hypothalamic neuropeptides after acute TCDD treatment and distribution of Ah receptor repressor. *Regul Pept.* 2004 Jun 15;119(1-2):113-24. PubMed PMID: 15093705.

45: Ceccatelli S, Tamm C, Sleeper E, Orrenius S. Neural stem cells and cell death. *Toxicol Lett.* 2004 Apr 1;149(1-3):59-66. Review. PubMed PMID: 15093249.

46: Poli D, Vettori MV, Manini P, Andreoli R, Alinovi R, Ceccatelli S, Mutti A. A novel approach based on solid phase microextraction gas chromatography and mass

spectrometry to the determination of highly reactive organic compounds in cells cultures: styrene oxide. *Chem Res Toxicol.* 2004 Jan;17(1):104-9. PubMed PMID: 14727924.

47: Daré E, Gorman AM, Ahlbom E, Götz M, Momoi T, Ceccatelli S. Apoptotic morphology does not always require caspase activity in rat cerebellar granule neurons. *Neurotox Res.* 2001 Oct;3(5):501-14. PubMed PMID: 14715461.

48: Huang P, Ceccatelli S, Hoegberg P, Sten Shi TJ, Håkansson H, Rannug A. TCDD-induced expression of Ah receptor responsive genes in the pituitary and brain of cellular retinol-binding protein (CRBP-I) knockout mice. *Toxicol Appl Pharmacol.* 2003 Nov 1;192(3):262-74. PubMed PMID: 14575644.

49: Goldoni M, Vettori MV, Alinovi R, Caglieri A, Ceccatelli S, Mutti A. Models of neurotoxicity: extrapolation of benchmark doses in vitro. *Risk Anal.* 2003 Jun;23(3):505-14. PubMed PMID: 12836843.

50: Canlon B, Erichsen S, Nemlander E, Chen M, Hossain A, Celsi G, Ceccatelli S. Alterations in the intrauterine environment by glucocorticoids modifies the developmental programme of the auditory system. *Eur J Neurosci.* 2003 May;17(10):2035-41. PubMed PMID: 12786969.

51: Daré E, Fetissov S, Hökfelt T, Hall H, Ogren SO, Ceccatelli S. Effects of prenatal exposure to methylmercury on dopamine-mediated locomotor activity and dopamine D2 receptor binding. *Naunyn Schmiedebergs Arch Pharmacol.* 2003 May;367(5):500-8. Epub 2003 Apr 9. PubMed PMID: 12684742.

52: Chen M, Jahnukainen T, Bao W, Daré E, Ceccatelli S, Celsi G. Uropathogenic *Escherichia coli* toxins induce caspase-independent apoptosis in renal proximal tubular cells via ERK signaling. *Am J Nephrol.* 2003 May-Jun;23(3):140-51. Epub 2003 Mar 6. PubMed PMID: 12624487.

53: Hernandez-Viadel M, Montoliu C, Monfort P, Canales JJ, Erceg S, Rowan M, Ceccatelli S, Felipe V. Chronic exposure to 2,5-hexanedione impairs the glutamate-nitric oxide-cyclic GMP pathway in cerebellar neurons in culture and in rat brain in vivo. *Neurochem Int.* 2003 Jun;42(7):525-33. PubMed PMID: 12590934.

54: Huang P, Ceccatelli S, Håkansson H, Grandison L, Rannug A. Constitutive and TCDD-induced expression of Ah receptor-responsive genes in the pituitary. *Neurotoxicology.* 2002 Dec;23(6):783-93. PubMed PMID: 12520768.

55: Sleeper E, Tamm C, Frisé J, Zhivotovsky B, Orrenius S, Ceccatelli S. Cell death in adult neural stem cells. *Cell Death Differ.* 2002 Dec;9(12):1377-8. PubMed PMID: 12478475.

- 56: Fonfría E, Daré E, Benelli M, Suñol C, Ceccatelli S. Translocation of apoptosis-inducing factor in cerebellar granule cells exposed to neurotoxic agents inducing oxidative stress. *Eur J Neurosci*. 2002 Nov;16(10):2013-6. PubMed PMID: 12453066.
- 57: Götz ME, Koutsilieri E, Riederer P, Ceccatelli S, Daré E. Methylmercury induces neurite degeneration in primary culture of mouse dopaminergic mesencephalic cells. *J Neural Transm*. 2002 May;109(5-6):597-605. PubMed PMID: 12111452.
- 58: Daré E, Tofighi R, Vettori MV, Momoi T, Poli D, Saido TC, Mutti A, Ceccatelli S. Styrene 7,8-oxide induces caspase activation and regular DNA fragmentation in neuronal cells. *Brain Res*. 2002 Apr 12;933(1):12-22. PubMed PMID: 11929631.
- 59: Huang P, Ceccatelli S, Rannug A. A study on diurnal mRNA expression of CYP1A1, AHR, ARNT, and PER2 in rat pituitary and liver. *Environ Toxicol Pharmacol*. 2002 Mar;11(2):119-26. PubMed PMID: 21782593.
- 60: Castoldi AF, Coccini T, Ceccatelli S, Manzo L. Neurotoxicity and molecular effects of methylmercury. *Brain Res Bull*. 2001 May 15;55(2):197-203. Review. PubMed PMID: 11470315.
- 61: Daré E, Li W, Zhivotovsky B, Yuan X, Ceccatelli S. Methylmercury and H₂O₂ provoke lysosomal damage in human astrocytoma D384 cells followed by apoptosis. *Free Radic Biol Med*. 2001 Jun 15;30(12):1347-56. PubMed PMID: 11390179.
- 62: Ahlbom E, Prins GS, Ceccatelli S. Testosterone protects cerebellar granule cells from oxidative stress-induced cell death through a receptor mediated mechanism. *Brain Res*. 2001 Feb 23;892(2):255-62. PubMed PMID: 11172772.
- 63: Giménez-Llort L, Ahlbom E, Daré E, Vahter M, Ögren S, Ceccatelli S. Prenatal exposure to methylmercury changes dopamine-modulated motor activity during early ontogeny: age and gender-dependent effects. *Environ Toxicol Pharmacol*. 2001 Jan 1;9(3):61-70. PubMed PMID: 11167150.
- 64: Ahlbom E, Gogvadze V, Chen M, Celsi G, Ceccatelli S. Prenatal exposure to high levels of glucocorticoids increases the susceptibility of cerebellar granule cells to oxidative stress-induced cell death. *Proc Natl Acad Sci U S A*. 2000 Dec 19;97(26):14726-30. PubMed PMID: 11114198; PubMed Central PMCID: PMC18986.
- 65: Gorman AM, Ceccatelli S, Orrenius S. Role of mitochondria in neuronal apoptosis. *Dev Neurosci*. 2000 Sep-Dec;22(5-6):348-58. Review. PubMed PMID: 11111150.
- 66: Huang P, Rannug A, Ahlbom E, Håkansson H, Ceccatelli S. Effect of

2,3,7,8-tetrachlorodibenzo-p-dioxin on the expression of cytochrome P450 1A1, the aryl hydrocarbon receptor, and the aryl hydrocarbon receptor nuclear translocator in rat brain and pituitary. *Toxicol Appl Pharmacol.* 2000 Dec 1;169(2):159-67. PubMed PMID: 11097868.

67: Daré E, Götz ME, Zhivotovsky B, Manzo L, Ceccatelli S. Antioxidants J811 and 17beta-estradiol protect cerebellar granule cells from methylmercury-induced apoptotic cell death. *J Neurosci Res.* 2000 Nov 15;62(4):557-65. PubMed PMID: 11070499.

68: Gorman AM, Hirt UA, Orrenius S, Ceccatelli S. Dexamethasone pre-treatment interferes with apoptotic death in glioma cells. *Neuroscience.* 2000;96(2):417-25. PubMed PMID: 10683582.

69: Gorman AM, Hirt UA, Zhivotovsky B, Orrenius S, Ceccatelli S. Application of a fluorometric assay to detect caspase activity in thymus tissue undergoing apoptosis in vivo. *J Immunol Methods.* 1999 Jun 24;226(1-2):43-8. PubMed PMID: 10410970.

70: Götz ME, Ahlbom E, Zhivotovsky B, Blum-Degen D, Oettel M, Römer W, Riederer P, Orrenius S, Ceccatelli S. Radical scavenging compound J 811 inhibits hydrogen peroxide-induced death of cerebellar granule cells. *J Neurosci Res.* 1999 May 15;56(4):420-6. PubMed PMID: 10340749.

71: Ahlbom E, Grandison L, Bonfoco E, Zhivotovsky B, Ceccatelli S. Androgen treatment of neonatal rats decreases susceptibility of cerebellar granule neurons to oxidative stress in vitro. *Eur J Neurosci.* 1999 Apr;11(4):1285-91. PubMed PMID: 10103123.

72: Gorman AM, Bonfoco E, Zhivotovsky B, Orrenius S, Ceccatelli S. Cytochrome c release and caspase-3 activation during colchicine-induced apoptosis of cerebellar granule cells. *Eur J Neurosci.* 1999 Mar;11(3):1067-72. PubMed PMID: 10103099.

73: Celsi G, Kistner A, Aizman R, Eklöf AC, Ceccatelli S, de Santiago A, Jacobson SH. Prenatal dexamethasone causes oligonephronia, sodium retention, and higher blood pressure in the offspring. *Pediatr Res.* 1998 Sep;44(3):317-22. PubMed PMID: 9727707.

74: Gorman AM, Orrenius S, Ceccatelli S. Apoptosis in neuronal cells: role of caspases. *Neuroreport.* 1998 Jul 13;9(10):R49-55. Review. PubMed PMID: 9694191.

75: Ahlbom E, Grandison L, Zhivotovsky B, Ceccatelli S. Termination of lactation induces apoptosis and alters the expression of the Bcl-2 family members in the rat anterior pituitary. *Endocrinology.* 1998 May;139(5):2465-71. PubMed PMID:

9564859.

76: Rossi AD, Ahlbom E, Ogren SO, Nicotera P, Ceccatelli S. Prenatal exposure to methylmercury alters locomotor activity of male but not female rats. *Exp Brain Res.* 1997 Dec;117(3):428-36. PubMed PMID: 9438710.

77: Ceccatelli S, Ahlbom E, Diana A, Zhivotovsky B. Apoptosis in rat hippocampal dentate gyrus after intraventricular colchicine. *Neuroreport.* 1997 Dec 1;8(17):3779-83. PubMed PMID: 9427370.

78: Ceccatelli S. Expression and plasticity of NO synthase in the neuroendocrine system. *Brain Res Bull.* 1997;44(4):533-8. PubMed PMID: 9370221.

79: Ceccatelli S, Grandison L, Scott RE, Pfaff DW, Kow LM. Estradiol regulation of nitric oxide synthase mRNAs in rat hypothalamus. *Neuroendocrinology.* 1996 Nov;64(5):357-63. PubMed PMID: 8930936.

80: Calzà L, Giardino L, Ceccatelli S, Hökfelt T. Neurotrophins and their receptors in the adult hypo- and hyperthyroid rat after kainic acid injection: an in situ hybridization study. *Eur J Neurosci.* 1996 Sep;8(9):1873-81. PubMed PMID: 8921278.

81: Giardino L, Puglisi-Allegra S, Ceccatelli S. CRH-R1 mRNA expression in two strains of inbred mice and its regulation after repeated restraint stress. *Brain Res Mol Brain Res.* 1996 Sep 1;40(2):310-4. PubMed PMID: 8872315.

82: Eriksson M, Ceccatelli S, Uvnäs-Moberg K, Iadarola M, Hökfelt T. Expression of Fos-related antigens, oxytocin, dynorphin and galanin in the paraventricular and supraoptic nuclei of lactating rats. *Neuroendocrinology.* 1996 Apr;63(4):356-67. PubMed PMID: 8739891.

83: Ceccatelli S, Calzà L, Giardino L. Age-related changes in the expression of corticotropin-releasing hormone receptor mRNA in the rat pituitary. *Brain Res Mol Brain Res.* 1996 Apr;37(1-2):175-80. PubMed PMID: 8738149.

84: Giardino L, Ceccatelli S, Hökfelt T, Calza L. Expression of enkephalin and dynorphin precursor mRNAs in brain areas of hypo- and hyperthyroid rat: effect of kainic acid injection. *Brain Res.* 1995 Jul 31;687(1-2):83-93. PubMed PMID: 7583317.

85: Bonfoco E, Ceccatelli S, Manzo L, Nicotera P. Colchicine induces apoptosis in cerebellar granule cells. *Exp Cell Res.* 1995 May;218(1):189-200. PubMed PMID: 7537689.

86: Ceccatelli S, Diana A, Villar MJ, Nicotera P. Adrenocortical apoptosis in

hypophysectomized rats is selectively reduced by ACTH. *Neuroreport*. 1995 Jan 26;6(2):342-4. PubMed PMID: 7756624.

87: Giardino L, Ceccatelli S, Zanni M, Hökfelt T, Calzà L. Regulation of VIP mRNA expression by thyroid hormone in different brain areas of adult rat. *Brain Res Mol Brain Res*. 1994 Nov;27(1):87-94. PubMed PMID: 7877459.

88: Hökfelt T, Ceccatelli S, Gustafsson L, Hulting AL, Verge V, Villar M, Xu XJ, Xu ZQ, Wiesenfeld-Hallin Z, Zhang X. Plasticity of NO synthase expression in the nervous and endocrine systems. *Neuropharmacology*. 1994 Nov;33(11):1221-7. Review. PubMed PMID: 7532809.

89: Ceccatelli S, Lundberg JM, Zhang X, Aman K, Hökfelt T. Immunohistochemical demonstration of nitric oxide synthase in the peripheral autonomic nervous system. *Brain Res*. 1994 Sep 12;656(2):381-95. PubMed PMID: 7529640.

90: Villar MJ, Ceccatelli S, Bedecs K, Bartfai T, Bredt D, Synder SH, Hökfelt T. Upregulation of nitric oxide synthase and galanin message-associated peptide in hypothalamic magnocellular neurons after hypophysectomy. Immunohistochemical and in situ hybridization studies. *Brain Res*. 1994 Jul 11;650(2):219-28. PubMed PMID: 7525016.

91: Villar MJ, Ceccatelli S, Rönqvist M, Hökfelt T. Nitric oxide synthase increases in hypothalamic magnocellular neurons after salt loading in the rat. An immunohistochemical and in situ hybridization study. *Brain Res*. 1994 May 2;644(2):273-81. PubMed PMID: 7519526.

92: Ceccatelli S, Hulting AL, Zhang X, Gustafsson L, Villar M, Hökfelt T. Nitric oxide synthase in the rat anterior pituitary gland and the role of nitric oxide in regulation of luteinizing hormone secretion. *Proc Natl Acad Sci U S A*. 1993 Dec 1;90(23):11292-6. PubMed PMID: 7504302; PubMed Central PMCID: PMC47968.

93: Ceccatelli S, Eriksson M. The effect of lactation on nitric oxide synthase gene expression. *Brain Res*. 1993 Oct 15;625(1):177-9. PubMed PMID: 7694775.

94: Ceccatelli S, Orazzo C. Effect of different types of stressors on peptide messenger ribonucleic acids in the hypothalamic paraventricular nucleus. *Acta Endocrinol (Copenh)*. 1993 Jun;128(6):485-92. PubMed PMID: 8337918.

95: Calzà L, Giardino L, Ceccatelli S. NOS mRNA in the paraventricular nucleus of young and old rats after immobilization stress. *Neuroreport*. 1993 Jun;4(6):627-30. PubMed PMID: 7688585.

96: Orazzo C, Pieribone VA, Ceccatelli S, Terenius L, Hökfelt T. CGRP-like immunoreactivity in A11 dopamine neurons projecting to the spinal cord and a note

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on CGRP-CCK cross-reactivity. Brain Res. 1993 Jan 8;600(1):39-48. PubMed PMID:
8422589.

97: Calzá L, Giardino L, Ceccatelli S, Zanni M, Elde R, Hökfelt T. Distribution of thyrotropin-releasing hormone receptor messenger RNA in the rat brain: an in situ hybridization study. Neuroscience. 1992 Dec;51(4):891-909. PubMed PMID: 1488129.

98: Ceccatelli S, Lundberg JM, Fahrenkrug J, Bredt DS, Snyder SH, Hökfelt T. Evidence for involvement of nitric oxide in the regulation of hypothalamic portal blood flow. Neuroscience. 1992 Dec;51(4):769-72. PubMed PMID: 1488122.

99: Ceccatelli S, Giardino L, Calzá L. Response of hypothalamic peptide mRNAs to thyroidectomy. Neuroendocrinology. 1992 Nov;56(5):694-703. PubMed PMID: 1283206.

100: Honkaniemi J, Kainu T, Ceccatelli S, Recharadt L, Hökfelt T, Pelto-Huikko M. Fos and jun in rat central amygdaloid nucleus and paraventricular nucleus after stress. Neuroreport. 1992 Oct;3(10):849-52. PubMed PMID: 1421086.

101: Ceccatelli S, Seroogy KB, Millhorn DE, Terenius L. Presence of a dynorphin-like peptide in a restricted subpopulation of catecholaminergic neurons in rat nucleus tractus solitarii. Brain Res. 1992 Sep 4;589(2):225-30. PubMed PMID: 1356595.

102: Hökfelt T, Aman K, Arvidsson U, Bedecs K, Ceccatelli S, Hulting AL, Langel U, Meister B, Pieribone V, Bartfai T. Galanin message-associated peptide (GMAP)- and galanin-like immunoreactivities: overlapping and differential distributions in the rat. Neurosci Lett. 1992 Aug 17;142(2):139-42. PubMed PMID: 1280789.

103: Hökfelt T, Arvidsson U, Ceccatelli S, Cortés R, Cullheim S, Dagerlind A, Johnson H, Orazzo C, Piehl F, Pieribone V, et al. Calcitonin gene-related peptide in the brain, spinal cord, and some peripheral systems. Ann N Y Acad Sci. 1992 Jun 30;657:119-34. Review. PubMed PMID: 1637079.

104: Ceccatelli S, Fahrenkrug J, Eneroth P, Hökfelt T. Vasoactive intestinal polypeptide/peptide histidine isoleucine-immunoreactive neuron systems in the Basal hypothalamus of a rat strain with deficient prolactin release in response to stress. J Neuroendocrinol. 1992 Feb;4(1):51-8. doi: 10.1111/j.1365-2826.1992.tb00344.x. PubMed PMID: 21554576.

105: Hökfelt T, Bean A, Ceccatelli S, Dagerlind A, Elde RP, Goldstein M, Meister B, Melander T, Nicholas AP, Pelto-Huikko M, et al. Neuropeptides and classical transmitters. Localization and interaction. Arzneimittelforschung. 1992 Feb;42(2A):196-201. Review. PubMed PMID: 1350196.

- 106: Hökfelt T, Arvidsson U, Bean A, Castel MN, Ceccatelli S, Dagerlind A, Elde RP, Meister B, Morino P, Nicholas AP, et al. Colocalization of neuropeptides and classical neurotransmitters--functional significance. *Clin Neuropharmacol.* 1992;15 Suppl 1 Pt A:309A-310A. PubMed PMID: 1354037.
- 107: Ceccatelli S, Ernfors P, Villar MJ, Persson H, Hökfelt T. Expanded distribution of mRNA for nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 in the rat brain after colchicine treatment. *Proc Natl Acad Sci U S A.* 1991 Nov 15;88(22):10352-6. PubMed PMID: 1946455; PubMed Central PMCID: PMC52926.
- 108: Villar MJ, Ceccatelli S, Hökfelt T. Transient induction of c-fos in rat magnocellular hypothalamic neurons after hypophysectomy. *Neuroreport.* 1991 Nov;2(11):703-6. PubMed PMID: 1810461.
- 109: Hökfelt T, Cortés R, Schalling M, Ceccatelli S, Peltö-Huikko M, Persson H, Villar MJ. Distribution patterns of CCK and CCK mRNA in some neuronal and non-neuronal tissues. *Neuropeptides.* 1991 Jul;19 Suppl:31-43. Review. PubMed PMID: 1881531.
- 110: Peltö-Huikko M, Dagerlind A, Ceccatelli S, Hökfelt T. The immediate-early genes c-fos and c-jun are differentially expressed in the rat adrenal gland after capsaicin treatment. *Neurosci Lett.* 1991 May 27;126(2):163-6. PubMed PMID: 1922926.
- 111: Ceccatelli S, Fahrenkrug J, Villar MJ, Hökfelt T. Vasoactive intestinal polypeptide/peptide histidine isoleucine immunoreactive neuron systems in the basal hypothalamus of the rat with special reference to the portal vasculature: an immunohistochemical and in situ hybridization study. *Neuroscience.* 1991;43(2-3):483-502. PubMed PMID: 1922780.
- 112: Ceccatelli S, Cortés R, Hökfelt T. Effect of reserpine and colchicine on neuropeptide mRNA levels in the rat hypothalamic paraventricular nucleus. *Brain Res Mol Brain Res.* 1991 Jan;9(1-2):57-69. PubMed PMID: 1850078.
- 113: Elde R, Schalling M, Ceccatelli S, Nakanishi S, Hökfelt T. Localization of neuropeptide receptor mRNA in rat brain: initial observations using probes for neurotensin and substance P receptors. *Neurosci Lett.* 1990 Nov 27;120(1):134-8. PubMed PMID: 1705671.
- 114: Cortés R, Arvidsson U, Schalling M, Ceccatelli S, Hökfelt T. In situ hybridization studies on mRNAs for cholecystokinin, calcitonin gene-related peptide and choline acetyltransferase in the lower brain stem, spinal cord and dorsal root ganglia of rat and guinea pig with special reference to motoneurons. *J Chem Neuroanat.* 1990 Nov-Dec;3(6):467-85. PubMed PMID: 2291815.

- 115: Hökfelt T, Meister B, Villar MJ, Ceccatelli S, Corts R, Schalling M, Everitt B. Colocalization of messenger substances with special reference to the hypothalamic arcuate and paraventricular nuclei. *Prog Clin Biol Res.* 1990;342:257-64. Review. PubMed PMID: 1974354.
- 116: Cortés R, Ceccatelli S, Schalling M, Hökfelt T. Differential effects of intracerebroventricular colchicine administration on the expression of mRNAs for neuropeptides and neurotransmitter enzymes, with special emphasis on galanin: an in situ hybridization study. *Synapse.* 1990;6(4):369-91. PubMed PMID: 1705058.
- 117: Meister B, Villar MJ, Ceccatelli S, Hökfelt T. Localization of chemical messengers in magnocellular neurons of the hypothalamic supraoptic and paraventricular nuclei: an immunohistochemical study using experimental manipulations. *Neuroscience.* 1990;37(3):603-33. PubMed PMID: 1701038.
- 118: Ceccatelli S, Dagerlind A, Schalling M, Wikström AC, Okret S, Gustafsson JA, Goldstein M, Hökfelt T. The glucocorticoid receptor in the adrenal gland is localized in the cytoplasm of adrenaline cells. *Acta Physiol Scand.* 1989 Dec;137(4):559-60. PubMed PMID: 2690581.
- 119: Ceccatelli S, Villar MJ, Goldstein M, Hökfelt T. Expression of c-Fos immunoreactivity in transmitter-characterized neurons after stress. *Proc Natl Acad Sci U S A.* 1989 Dec;86(23):9569-73. PubMed PMID: 2512584; PubMed Central PMCID: PMC298539.
- 120: Ceccatelli S, Eriksson M, Hökfelt T. Distribution and coexistence of corticotropin-releasing factor-, neurotensin-, enkephalin-, cholecystokinin-, galanin- and vasoactive intestinal polypeptide/peptide histidine isoleucine-like peptides in the parvocellular part of the paraventricular nucleus. *Neuroendocrinology.* 1989 Mar;49(3):309-23. PubMed PMID: 2469987.
- 121: Ceccatelli S, Cintra A, Hökfelt T, Fuxe K, Wikström AC, Gustafsson JA. Coexistence of glucocorticoid receptor-like immunoreactivity with neuropeptides in the hypothalamic paraventricular nucleus. *Exp Brain Res.* 1989;78(1):33-42. PubMed PMID: 2591516.
- 122: Hökfelt T, Meister B, Villar MJ, Ceccatelli S, Cortés R, Schalling M, Everitt B. Hypothalamic neurosecretory systems and their messenger molecules. *Acta Physiol Scand Suppl.* 1989;583:105-11. Review. PubMed PMID: 2573233.
- 123: Meister B, Ceccatelli S, Hökfelt T, Andén NE, Andén M, Theodorsson E. Neurotransmitters, neuropeptides and binding sites in the rat mediobasal hypothalamus: effects of monosodium glutamate (MSG) lesions. *Exp Brain Res.* 1989;76(2):343-68. PubMed PMID: 2569986.

124: Ceccatelli S, Millhorn DE, Hökfelt T, Goldstein M. Evidence for the occurrence of an enkephalin-like peptide in adrenaline and noradrenaline neurons of the rat medulla oblongata. *Exp Brain Res.* 1989;74(3):631-40. PubMed PMID: 2565245.

125: Tsuruo Y, Ceccatelli S, Villar MJ, Hökfelt T, Visser TJ, Terenius L, Goldstein M, Brown JC, Buchan A, Walsh J. Coexistence of TRH with other neuroactive substances in the rat central nervous system. *J Chem Neuroanat.* 1988 Sep-Oct;1(5):235-53. Erratum in: *J Chem Neuroanat* 1989 May-Jun;2(3):177. PubMed PMID: 3151546.

126: Seroogy K, Ceccatelli S, Schalling M, Hökfelt T, Frey P, Walsh J, Dockray G, Brown J, Buchan A, Goldstein M. A subpopulation of dopaminergic neurons in rat ventral mesencephalon contains both neurotensin and cholecystokinin. *Brain Res.* 1988 Jul 5;455(1):88-98. PubMed PMID: 3046712.

127: Ceccatelli S, Tsuruo Y, Hökfelt T, Fahrenkrug J, Döhler KD. Some blood vessels in the rat median eminence are surrounded by a dense plexus of vasoactive intestinal polypeptide/peptide histidine isoleucine (VIP/PHI) immunoreactive nerves. *Neurosci Lett.* 1988 Jan 11;84(1):29-34. PubMed PMID: 3347368.

128: Hökfelt T, Fahrenkrug J, Ju G, Ceccatelli S, Tsuruo Y, Meister B, Mutt V, Rundgren M, Brodin E, Terenius L, et al. Analysis of peptide histidine-isoleucine/vasoactive intestinal polypeptide-immunoreactive neurons in the central nervous system with special reference to their relation to corticotropin releasing factor- and enkephalin-like immunoreactivities in the paraventricular hypothalamic nucleus. *Neuroscience.* 1987 Dec;23(3):827-57. PubMed PMID: 3125490.

129: Hökfelt T, Millhorn D, Seroogy K, Tsuruo Y, Ceccatelli S, Lindh B, Meister B, Melander T, Schalling M, Bartfai T, et al. Coexistence of peptides with classical neurotransmitters. *Experientia.* 1987 Jul 15;43(7):768-80. Review. PubMed PMID: 2885215.

130: Ceccatelli S, Hökfelt T, Hallman H, Nylander I, Terenius L, Elde R, Brownstein M. Immunohistochemical analysis of the effects of cysteamine on somatostatin-like immunoreactivity in the rat central nervous system. *Peptides.* 1987 Mar-Apr;8(2):371-84. PubMed PMID: 2884649.

131: Ju G, Melander T, Ceccatelli S, Hökfelt T, Frey P. Immunohistochemical evidence for a spinothalamic pathway co-containing cholecystokinin- and galanin-like immunoreactivities in the rat. *Neuroscience.* 1987 Feb;20(2):439-56. PubMed PMID: 2438590.

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132: Ceccatelli S, Meister B, Hökfelt T, Elde R. Immunohistochemical evidence for a magnocellular somatostatin cell group in the anterior paraventricular thalamus of the rat. *Cell Tissue Res.* 1986;246(3):683-5. PubMed PMID: 2878730.