

**Ingemar Pongratz**

**Publication list**

**ARTICLES INCLUDED IN THESIS**

- 1. Ingemar Pongratz**, Per Erik Strömstedt, Grant Mason and Lorenz Poellinger. Inhibition of the Specific DNA binding activity of the Dioxin Receptor by Phosphatase Treatment. **Journal of Biological Chemistry** 266,16813-16817,1991
- 2. Ingemar Pongratz**, Grant Mason and Lorenz Poellinger. Dual Roles of the 90-kDa Heat Shock Protein in Modulating Functional Activities of the Dioxin Receptor. **Journal of Biological Chemistry**, 267,13728-13734 1992
- 3. Murray Whitlaw**, **Ingemar Pongratz**, Anna Wilhemsson, Jan-Åke Gustafsson and Lorenz Poellinger. The DNA-binding Activity of the Dioxin Receptor is Regulated by Ligand Dependent Recruitment of the ARNT co-regulator. **Molecular and Cellular Biology** 13, 2504-2514, 1993
- 4. Anna Berghard**, Katarina Gradin, **Ingemar Pongratz**, Murray Whitelaw and Lorenz Poellinger. Cross-Coupling of Signal Transduction Pathways: The Dioxin Receptor Mediates Induction of Cytochrome P-450IA1 Expression via a Protein Kinase C dependent Mechanism. **Molecular and Cellular Biology**, 13, 677-689. 1993
- 5. Ingemar Pongratz**, Camilla Antonsson, Murray L Whitelaw and Lorenz Poellinger. Role of the PAS domain in regulation of dimerization and DNA binding specificity of the dioxin receptor. **Molecular Cellular Biology** 18, 4079-88, 1998

## PUBLICATIONS

6. William Cairns, Carol Cairns, **Ingemar Pongratz**, Lorenz Poellinger and Sam Okret. Assembly of a Glucocorticoid Receptor complex prior to DNA binding enhances its specific interaction with a Glucocorticoid Response Element. **Journal of Biological Chemistry**, 261, 10859-10866, 1991.
7. Janet Hapgood, Scot Cuthill, Peter Söderkvist, Anna Wilhemsson, **Ingemar Pongratz**, Robert Tukey, Eric F. Johnsson, Jan Åke Gustafsson and Lorenz Poellinger. Liver cells contain constitutive DNase I-hypersensitive sites at the Xenobiotic Response Element 1 and 2 (XRE and 2) of the rat Cytochrome p-450 IA1 gene and a constitutive nuclear XRE binding factor that is distinct from the Dioxin Receptor, **Molecular and Cellular Biology**, 11,4314-4323. 1991.
8. Jacqueline McGuire, Murray L. Whitelaw, **Ingemar Pongratz**, Jan-Åke Gustafsson and Lorenz Poellinger. A cellular factor stimulates ligand-dependent release of hsp90 from the basic helix-loop-helix dioxin receptor. **Molecular and Cellular Biology**, 14, 2438-2446, 1994
9. Pekka Kallio, **Ingemar Pongratz**, Katarina Gradin, Jacqueline McGuire and Lorenz Poellinger. Activation of hypoxia inducible factor 1a: Post-transcriptional and conformational change by recruitment of the ARNT transcription factor. **Proceedings of the National Academy of Science of the U.S.A.** 94 5667-5672, 1997
10. Arunas Kazlauskas, Lorenz Poellinger and **Ingemar Pongratz**. Evidence that the co-chaperone p23 regulates ligand responsiveness of the Dioxin (Aryl Hydrocarbon) Receptor. **Journal of Biological Chemistry** 274, 13519-24, 1999
11. David Lando, **Ingemar Pongratz**, Lorenz Poellinger and Murray L. Whitelaw. A redox mechanism controls differential DNA binding activities of the Hypoxia Inducible Factors HIF-1a and HIF-Like-Factor. **Journal of Biological Chemistry**, 275, 4618-27, 2000
12. Arunas Kazlauskas, Lorenz Poellinger and **Ingemar Pongratz**. The immunophilin-like protein XAP2 regulates ubiquitination and subcellular localization of the dioxin receptor. **Journal of Biological Chemistry**, 275 41317-24, 2000
13. Arunas Kazlauskas, Sara Sundström, Lorenz Poellinger and **Ingemar Pongratz**. The hsp90 chaperone complex regulates intracellular localisation of the dioxin receptor **Molecular Cellular Biology**, 21, 2594-2607, 2001
14. Petra Berg, and **Ingemar Pongratz**. Differential usage of a nuclear export sequence regulates intracellular localisation of the dioxin (Ah) receptor. **Journal of Biological Chemistry**, 276 43231-43238, 2001

15. Petra Berg and **Ingemar Pongratz**. Dual pathways converge on the bHLH-PAS dioxin (Ah) receptor and mediate cytoplasmic localization. **Journal of Biological Chemistry**, 277 (35) 32310-32319, 2002
16. Arunas Kazlauskas, Lorenz Poellinger and **Ingemar Pongratz**. Characterization of functional domains of the hsp90 associated immunophilin XAP-2. **Journal of Biological Chemistry** 277(14) 11795-801. 2002
17. David Lando, Daniel J. Peet, **Ingemar Pongratz** and Murray L. Whitelaw. Mammalian two-hybrid assay showing redox control of HIF-1-like factor. **Methods in Enzymology**, 353, 3-10 2002.
18. Sara Brunnberg, Katarina Pettersson, Elin Rydin, Jason Mathews, Annika Hanberg and **Ingemar Pongratz**. The bHLH-PAS protein ARNT functions as an Estrogen receptor co-activator. **Proceedings of the National Academy of Science of the U.S.A.** 100 (11):6517-6522. 2003
19. Marie-Stéphanie Clerget-Froidevaux, Petra Berg, Isabelle Seugnet, Stéphanie Decherf, Nathalie Becker, Laurent Sachs, Patrice Bilesimo, Maria Nygård, **Ingemar Pongratz**, and Barbara Demeneix The co-chaperone XAP2 is required for activation of hypothalamic TRH transcription *in vivo*. **EMBO Reports** 7, 1035-1039, 2006
20. Pauliina Penttinen, Jan Jaehrling, Anastasios E Damdimopoulos, Jose Inzunza, Josephine G Lemmen, Peter van der Saag, Katarina Pettersson, Gunther Gauglitz, Sari Mäkelä, **Ingemar Pongratz**. Diet-derived polyphenol metabolite enterolactone is a tissue-specific estrogen receptor activator. **Endocrinology** 148 (10): 4875-4886, 2007
21. Wen Cai, Juliette Rambaud, Michèle Teboul, Ingrid Masse, Gerard Benoit, Jan-Åke Gustafsson, Franck Delaunay, Vincent Laudet, and **Ingemar Pongratz**. Expression levels of ER $\beta$  are modulated by components of the molecular clock. **Molecular and Cellular Biology**, Jan;28 (2):784-93, 2008
22. Joëlle Rüegg, Elin Swedenborg, David Wahlström, Aurelie Escande, Patrick Balaguer, Katarina Pettersson and **Ingemar Pongratz**. The transcription factor ARNT functions as an estrogen receptor beta selective co-activator, and its recruitment to alternative pathways mediates anti-estrogenic effects of TCDD. **Molecular Endocrinology**. 22(29): 304-16; 2008
23. Elin Swedenborg, Joëlle Rüegg, Anne Hillenweck, Stefan Rehnmark, Malin Hedengran Faulds, Daniel Zalko, **Ingemar Pongratz** and Katarina Pettersson. 3-methyl cholanthrene displays dual effects on ER $\alpha$  and ER $\beta$  signaling in a cell-type specific fashion. **Molecular Pharmacology**; Feb; 73(2):575-86, 2008
24. Mathilde Paris, Katarina Pettersson, Michael Schubert, Stephanie Bertrand, **Ingemar Pongratz**, Hector Escriva and Vincent Laudet. An amphioxus orthologue of the

- estrogen receptor that does not bind estradiol: insights into estrogen receptor evolution. **BMC Evol Biol.** 2008 Jul 25;8(1):219.
25. J. Bursztyka , E. Perdu, K. Pettersson, **I. Pongratz**, M. Fernández-Cabrera, N. Olea, L. Debrauwer, D. Zalko and J.P. Cravedi. Biotransformation of genistein and bisphenol A in cell lines used for screening endocrine disruptors. **Toxicol In Vitro.** 2008 Sep;22(6):1595-604.
  26. Elin Swedenborg, Joëlle Ruegg, Sari Mäkelä and Ingemar Pongratz, Nuclear receptors and endocrine disruption. **Journal of Molecular Endocrinology**, 2009 Jul;43(1):1-10  
**Invited Review**
  27. Rüegg J, Penttinen-Damdimopoulou P, Mäkelä S, **Pongratz I**, Gustafsson JA. Receptors mediating toxicity and their involvement in endocrine disruption. **EXS.** 2009; 99:289-323. **Invited Review.**
  28. Jan Philipp Schuchardt, David Wahlström, Joëlle Rüegg, Norbert Giese, Madalina Stefan, Henning Hopf, **Ingemar Pongratz**, Helen Håkansson, Gregor Eichele, Katarina Pettersson and Heinz Nau. The endogenous retinoid metabolite *S*-4-oxo-9-*cis*-13,14-dihydro-retinoic acid activates retinoic acid receptor signalling both *in vitro* and *in vivo*. **Febs Letters**, 2009 Jun;276(11):3043-59.
  29. Elin Swedenborg, Krista A. Power, Wen Cai, **Ingemar Pongratz**, and Joëlle Rüegg. Regulation of estrogen receptor beta activity and implications in health and disease. **Invited Review, Cellular and Molecular Life Sciences**, 2009 66(24): 3873-94
  30. Elin Swedenborg and **Ingemar Pongratz**. Crosstalk mechanisms between Estrogen and AhR Receptor Signaling. **Invited Review, Toxicology**, 2010 268(3): 132-38
  31. Maria Bondesson, Jill Jönsson, **Ingemar Pongratz**, Nicholas Olea, Jean-Pierre Cravedi, Daniel Zalko, Helen Håkansson, Krister Halldin, Diego Di Lorenzo, Christian Behl, Dieter Manthey, Patrick Balaguer, Barbara Demeneix, Jean Baptiste Fini , Vincent Laudet, Jan-Åke Gustafsson. A CASCADE of effects of Bisphenol A. **Reproductive Toxicology**, 28(4): 563-7, 2009
  32. Tatiana V Kramarova, Karin Dahlman-Wright and **Ingemar Pongratz**. Overweight/Obesity and Estrogen Receptor Signaling, **Drug Discovery Today**, Vol 6 (1-4) 49-54, 2009
  33. Elin Swedenborg, **Ingemar Pongratz** and Jan-Åke Gustafsson. Endocrine disruptors and ER $\beta$  function. **International Journal of Andrology.** 33(2):288-97, 2010
  34. Malin Hedengran Faulds, Maria Kotka, Christian Bindsboll, Hilde Irene Nebb, José Inzunza, Helen Håkansson and **Ingemar Pongratz** The persistent environmental pollutant TCDD modulates the transcriptional activity of LXR. **In preparation**
  35. Joëlle Rüegg, Wen Cai, , Mohsen Karimi, Nimrod B. Kiss, Elin Swedenborg, Catharina Larsson, Tomas J. Ekström, and **Ingemar Pongratz**. Estrogen Receptor  $\beta$  Mediates

- Specific DNA Methylation Changes in Glucose Transporter 4 Promoter: a Novel Function for ER $\beta$  in Regulating Epigenetic Events. **Molecular Endocrinology**, 25 (12) 2017-28 2011
36. Pauliina Penttinen-Damdimopoulou, Anastasios E. Damdimopoulos, Maria Yli-Heikkilä, Maria Kotka, Paul van der Saag, **Ingemar Pongratz**, Sari I. Mäkelä. Novel target tissues and genes of the phytoestrogen enterolactone. **The Journal of Nutrition**, 141(9): 1583-9, 2011
37. Wen Cai, Tatiana V. Kramarova, Petra Berg, Marta Korbonits and **Ingemar Pongratz**. The immunophilin-like protein XAP2 is a negative regulator of estrogen signaling through interaction with estrogen receptor alpha. **PLOS One**, 6 (10) e 25201, 2011
38. Linda Vikström-Bergander, Wen Cai, Bernward Klocke, Martin Seifert and Ingemar Pongratz. Tryptamine serves as a proligand of the AhR transcriptional pathway and the activation is dependent of Monoamine Oxidases. **Molecular Endocrinology**, Sep;26(9):1542-51, 2012
39. **Elin Swedenborg, Maria Kotka, Martin Seifert, Jun Kanno, Ingemar Pongratz and Joelle Ruegg**. The aryl hydrocarbon receptor ligands 2,3,7,8-tetrachlorodibenzo-*p*-dioxin and 3-methylcholanthrene regulate distinct genetic networks. **Molecular Cellular Endocrinology**, 15;362(1-2):39-47, 2012.
40. **Michael S. Christodoulou, Nikolas Fokialakis, Daniele Passarella, Aída Nelly García-Argáez, Ornella Maria Gia, Ingemar Pongratz, Lisa Dalla Via, Serkos A. Haroutounian**. Synthesis and biological evaluation of novel tamoxifen analogues. **Bioorganic & Medicinal Chemistry**, Volume 21, Issue 14, Pages 4120-31, 2013

#### Book Chapters:

1. **“Coregulators in Toxicology”** Joëlle Rüegg, Malin Hedengran-Faulds, Manuela Hase, **Ingemar Pongratz**, and Jan-Åke Gustafsson. Book Chapter, edited by Rakesh Kumar and Bert O’Malley. World Scientific Publishing. 2008
2. **“Mechanism of action of endocrine disrupting chemicals”** Joëlle Rüegg, **Ingemar Pongratz**, and Jan-Åke Gustafsson. Book Chapter in, edited by Ian Shaw CRC Press, 2009
3. **“Receptors mediating toxicity and their involvement in endocrine disruption”** Joëlle Rüegg, Pauliina Damdimopoulou, Sari Mäkelä, **Ingemar Pongratz**, Jan-Åke Gustafsson. Book Chapter in “Molecular Toxicology”, edited by Andreas Luch, Birkhäuser Publishing, Basel. 2009

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**Books:**

4. "Hormone Disrupting Chemical Contaminants in Food" Edited by Linda Bergander and **Ingemar Pongratz**. Royal Society for Chemistry. 2011