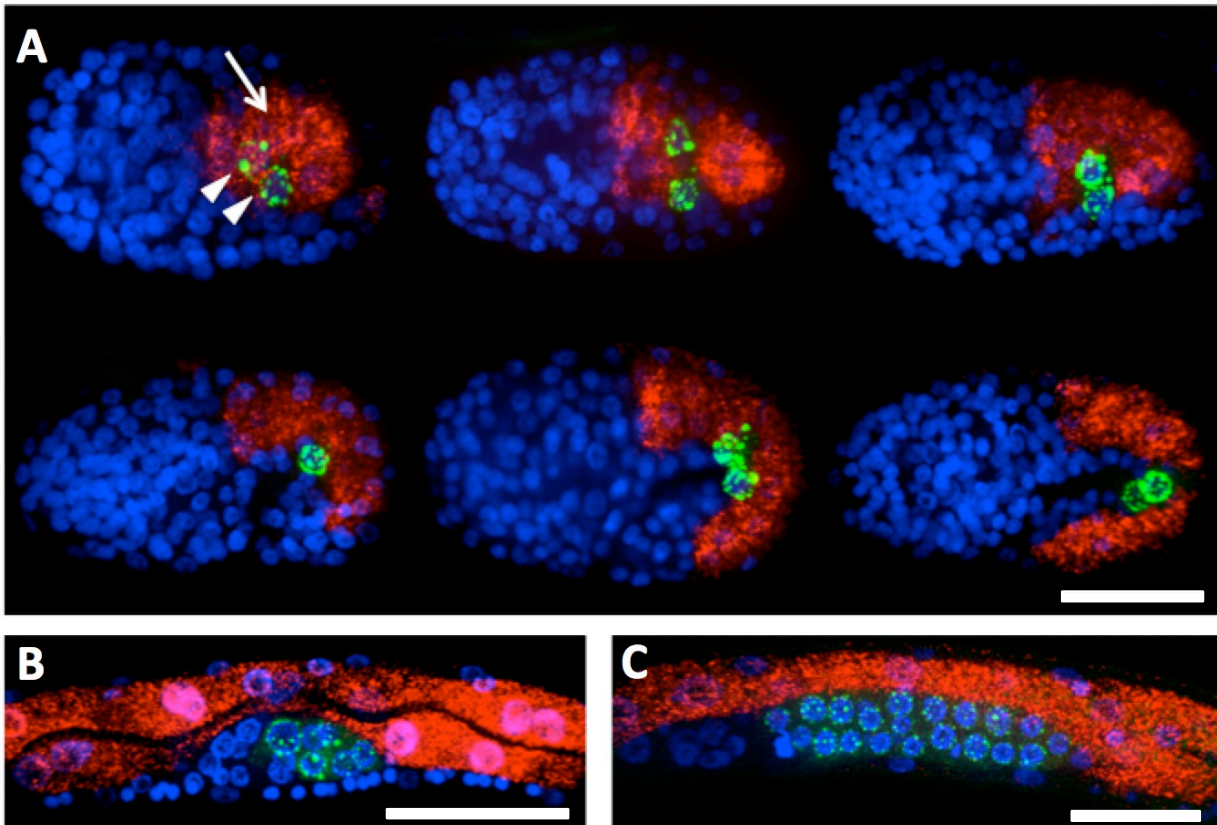


acdH-1 transcripts are expressed in the intestine

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Description:

Stellaris smFISH probes targeting *acdH-1*, a short-chain acyl-CoA dehydrogenase, are shown in red (Cal Fluor 610). DAPI/blue marks embryonic nuclei, and PGL-1::GFP shows the corresponding location of P granules surrounding germ cell nuclei (arrowheads, green). During embryogenesis (A), *acdH-1* expression begins in the E cells (arrow, red). Expression continues in the developing intestine, shown in red, throughout embryogenesis. Intestinal expression of *acdH-1* persists through larval development in the L1 (B) and L2 (C) stages. These results extend previous findings from Arda et al., where *acdH-1* was shown to be expressed in the adult intestine. scale = 20 μ

Reagents

The Stellaris *acdH-1* smFISH probe contains 44 oligos labeled with Cal Fluor 610 (sequences available upon request). Staining was performed as described by Ji and van Oudenaarden (2012). In short, PGL-1::GFP embryos and worms were fixed with formaldehyde and ethanol. Hybridization was done in the dark at 37°C for four hours. Cal Fluor 610 coupled probes were designed with the Stellaris Probe Designer from Biosearch Technologies.

References:

Arda HE, Taubert S, MacNeil LT, Conine CC, Tsuda B, Van Gilst M, Sequerra R, Doucette-Stamm L, Yamamoto KR, Walhout AJ. Functional modularity of nuclear hormone receptors in a *Caenorhabditis elegans* metabolic gene regulatory network. *Mol Syst Biol*. 2010 May 11;6:367. doi: 10.1038/msb.2010.23. PubMed PMID: 20461074; PubMed Central PMCID: PMC2890327.

07/20/2017 – Open Access

Ji N. and van Oudenaarden A. Single molecule fluorescent *in situ* hybridization (smFISH) of *C. elegans* worms and embryos (December 13, 2012), *WormBook*, ed. The *C. elegans* Research Community, WormBook, doi/10.1895/wormbook.1.153.1, <http://www.wormbook.org>.

Funding: NIH-NIGMS[R01GM113933]

Reviewed by: [Jim Lissemore](#)

Received 07/06/2017, **Accepted** 07/08/2017. **Available** starting [WormBase](#) release WS262, **Published Online** 07/20/2017.

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Citation: Updike, D. (2017): *acdh-1* transcripts are expressed in the intestine. Micropublication:biology. Dataset. <https://doi.org/10.17912/W2V365>