

# RNA FISH for neuroscience

## Direct detection for quantitative results

### Stellaris® RNA FISH for neuroscience cells and tissues

Visualisation and quantification of neuroscience-related single RNA transcripts, using Stellaris RNA fluorescence *in situ* hybridisation (RNA FISH) or smFISH, offers the unique ability to observe altered disease or region-specific expression in fixed cells or tissues, including an entire intact brain or organism. The breadth of information which can be gathered using Stellaris RNA FISH from LGC, Biosearch Technologies™

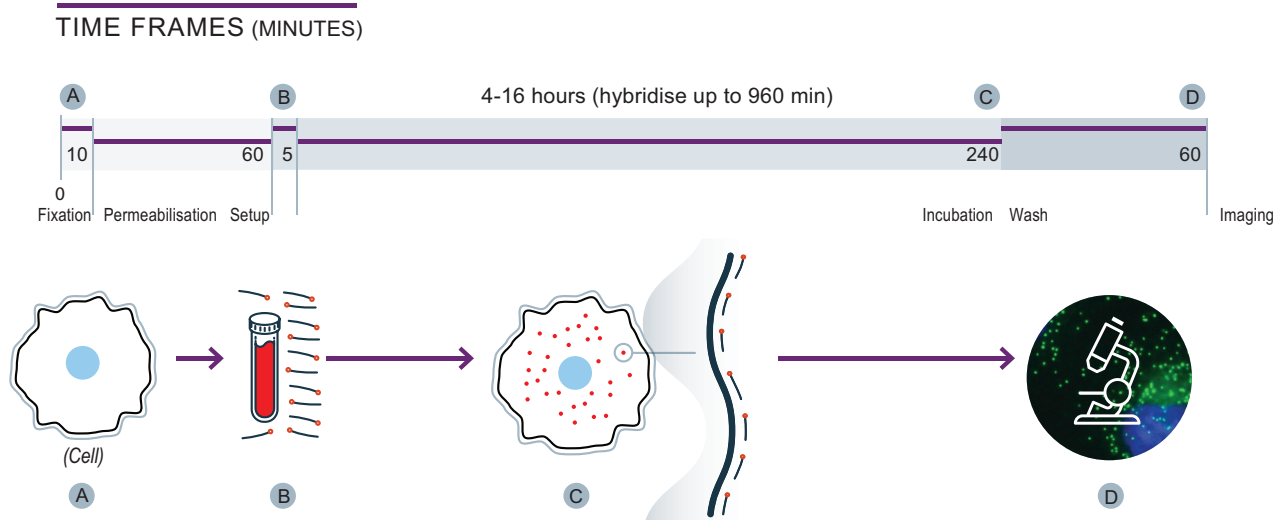
encompasses individual RNA transcript counting, transcription bursting within a single cell, and visualising wide bands of expression within an entire intact brain or organism.

### Professionally-designed neuro-associated RNA FISH probe sets

Easily design a probe set against your RNA target of interest using our free online designer or choose from our professionally designed sets.

ATRX	DHPS	Fosp2	Itpr2	Necab1/2	Neurog1	OLIG2	Pnoc	SAT	Sox2	Tbr1
Cx3cr1	DOHH	GAD1/2	Map2	NEFL	NF1	MIAT	Pou5f1	SETD2	STUB1	UCP2
DCX	FOS	Gfap	MTFT	NES	NOG	PMP22	PROX1	Rbfox3	Tac1	

## The Stellaris RNA FISH method



### Publication highlights

#### Over 1/3 of publications citing Stellaris publish in Cell, Nature, or Science

Multiplexed Intact-Tissue Transcriptional Analysis at Cellular Resolution. Sylwestrak *et al.* Cell. 2016.

url: <https://dx.doi.org/10.1158/1078-0432.CCR-14-2796>

Deficiency of the Survival of Motor Neuron Protein Impairs mRNA Localization and Local Translation in the Growth Cone of Motor Neurons. Fallini *et al.* The Journal of Neuroscience. 2016.

url: <https://dx.doi.org/10.1523/JNEUROSCI.2396-15.2016>

Nuclear speckles are detention centers for transcripts containing expanded CAG repeats. Urbanek *et al.* BBA Molecular Basis of Disease. 2016.

url: <https://dx.doi.org/10.1016/j.bbadis.2016.05.015>

For a complete list of Stellaris-citing publications, visit:

[www.biosearchtech.com/support/resources/stellaris-citation-center](http://www.biosearchtech.com/support/resources/stellaris-citation-center)

# Integrated tools. Accelerated science.

Honey bee brain whole mount; Tyrosine hydroxylase (green). Credit: Matthew McNeill and Gene Robinson




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