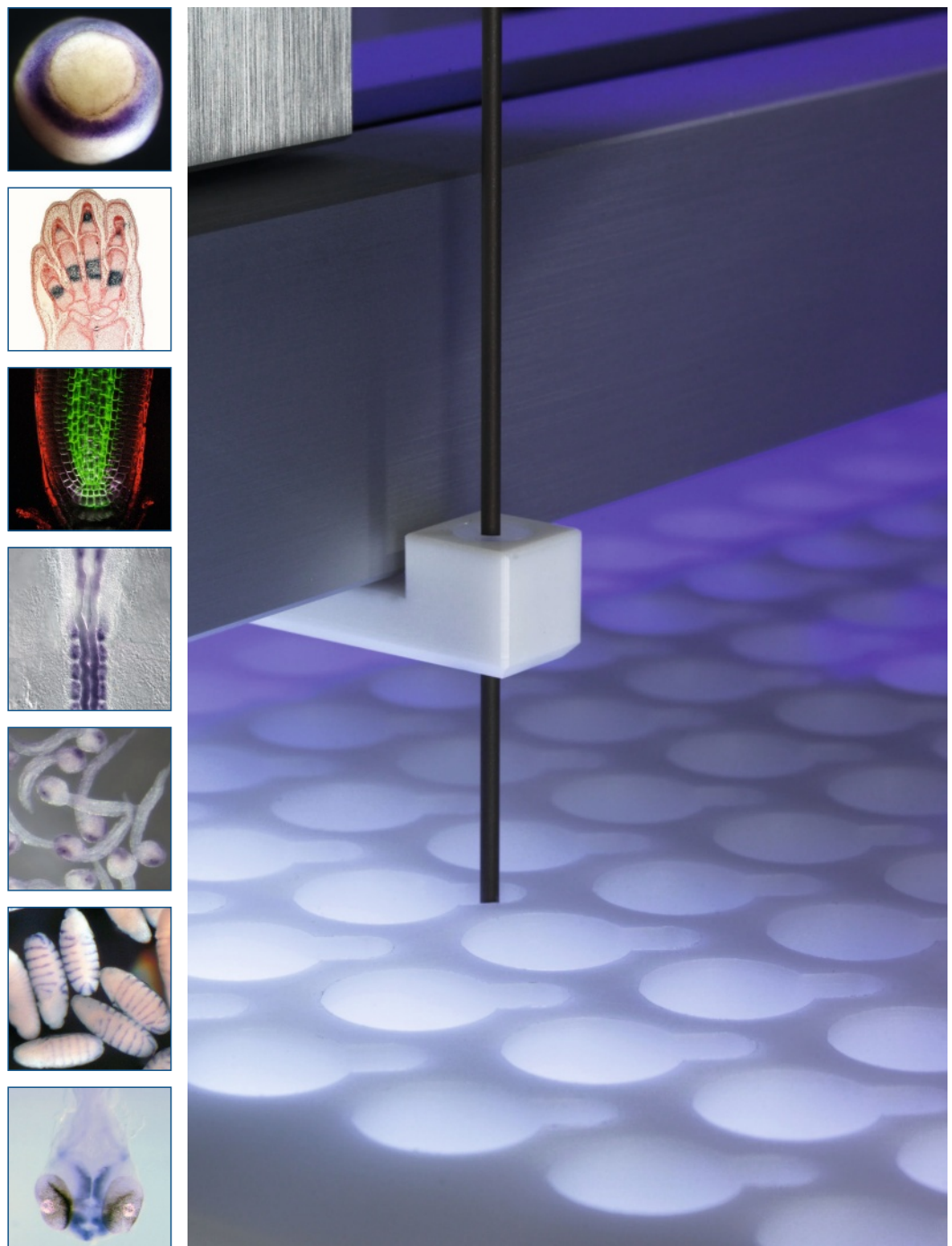


InsituPro VSi

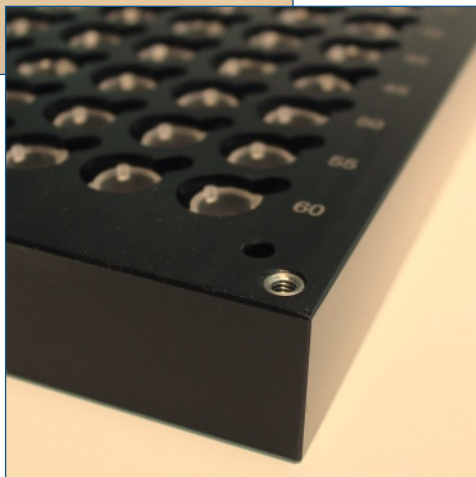
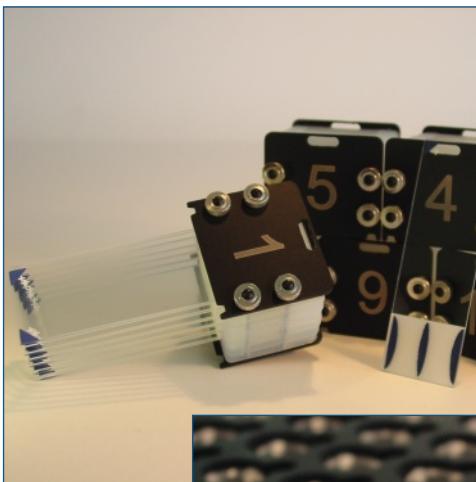
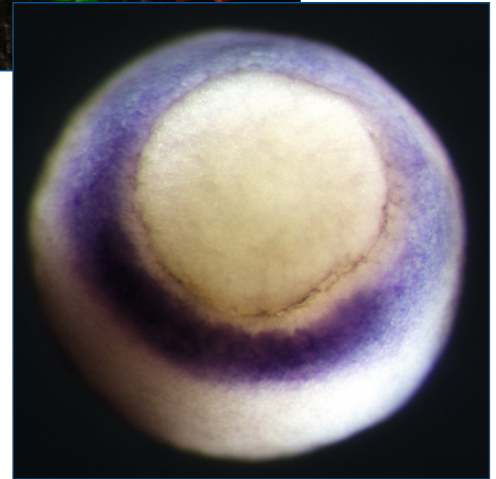
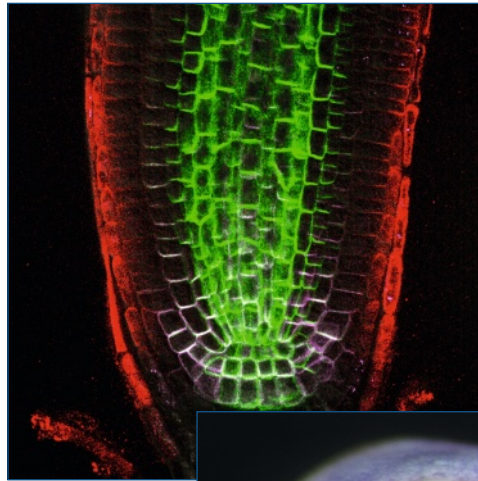
Next Generation in situ Hybridization and Immunohistochemistry



Automated *in situ* hybridization and immunohistochemistry

In situ hybridization and immunohistochemistry are powerful techniques to study gene expression patterns in complex organisms, whether performed on whole specimens or tissue sections. The ***InsituPro VSi*** fully automates all steps of these techniques, allowing the user to concentrate on new scientific challenges.

- Full automation of *in situ* hybridization and immunohistochemistry
- High throughput approaches made easier
- Precise control of hybridization conditions
- Consistent processing of complex protocols
- Uses standard lab buffers



One system for whole mounts, sections and cells on coverslips

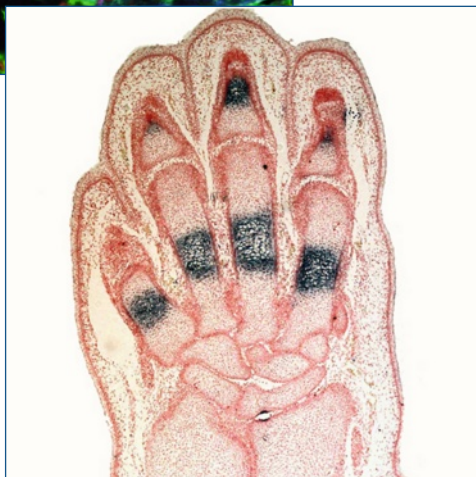
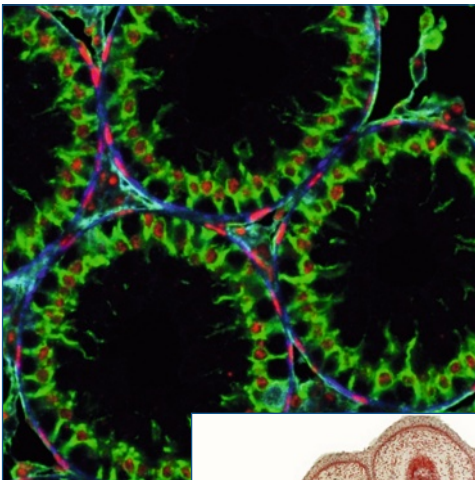
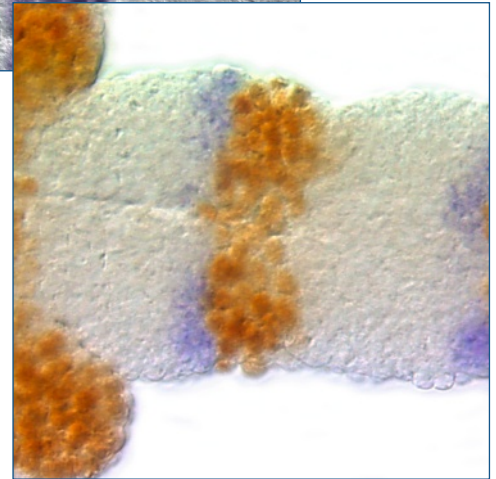
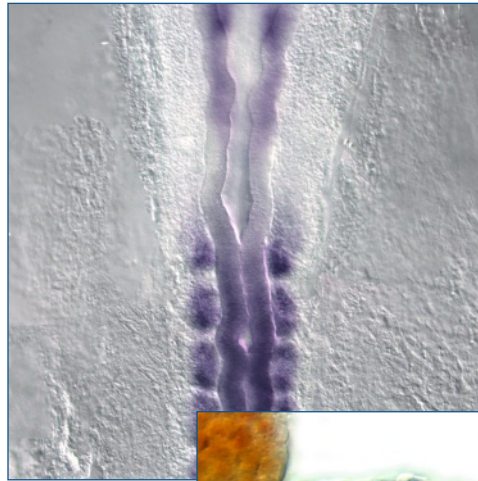
Whether working on whole mounts, vibratome sections, thin sections on microscope slides or cells on coverslips, the ***InsituPro VSi*** can be adapted in a few minutes by simply swapping modules. Eighteen buffer positions including two cooled as well as two heated, and two ports for bulk buffers provide flexibility to automate even the most complex protocols.

- Exchangeable modules
- Sample racks for different specimen sizes
- Individual probes for every sample

Whole mounts, vibratome sections and cells grown on coverslips

Complete specimens, organs and vibratome sections are processed in incubation baskets placed in individual incubation chambers on the specimen tray. The same module can also be used for cells on coverslips. The tray is mounted on a plate which is precisely heated and cooled under software control.

- Gentle liquid exchange for delicate specimens
- Separate pipetting channels for fresh and used solutions
- Processing of up to 60 specimens or coverslips with individual probes
- Three configurations for different specimen sizes available
- Recovery of solutions possible



Thin sections on slides

Thin sections on slides are sandwiched using counterslides with spacers to form individual incubation chambers. These sandwiches are mounted in a holding block which provides a buffer reservoir for each pair of slides. For liquid exchange, the *InsituPro VSi* pipettes buffer into these individual reservoirs. The liquid between the slides is then replaced by gravity flow, while the new buffer is retained in the incubation chamber by capillary force. All slides are held in a humid chamber which is heated during hybridization.

- Up to 60 slides in parallel with individual probes
- Paraffin sections and cryosections
- Fast and efficient processing



Intuitive operation software

The **InsituPro VSi** is operated by a Windows™ based software running on a standard PC.

- Graphical user interface
- User-tested protocols for a variety of specimens
- Easy method development with template protocols
- Expert level for advanced method development
- Real-time display of instrument operation
- Detailed documentation of each run

Specifications

| | |
|-----------------------------|--|
| Sample size: | up to 12 mm for whole mounts and vibratome sections Standard slides: 75 x 25 x 1 mm or 76 x 26 x 1 mm |
| Temperature range: | 6 °C to 75 °C for the basket modules Ambient to 75 °C for the slide module |
| Buffer positions: | 18 plus up to 60 individual probes |
| Cooled/heated positions: | 2x 250 ml heated / 2x 50 ml cooled |
| Size of buffer vials: | 2x 1000 ml, 3x 250 ml, 6x 125 ml, 7x 50 ml, 125 ml bottles can be replaced with 50 ml Falcon tubes using included adapters |
| Buffer volume / sample: | 100 - 1600 µl |
| Power: | 220/240 V, 50 Hz or 110/115 V, 60 Hz, 250 W |
| Dimensions: | 57 x 50 x 69 cm (width x depth x height) [22.4 x 19.7 x 27.2 inches] |
| Weight: | 62 kg |
| Sample rack configurations: | Four different configurations for samples varying in shape and size are available. Each configuration is delivered as a complete kit and includes a set of consumables. The basket kits can be used for processing of whole mounts, vibratome sections or cells grown on coverslips. |
| Small basket kit: | holds 60 incubation baskets (5 mm diameter, different mesh sizes available) |
| Medium basket kit: | holds 60 incubation baskets (9 mm diameter, different mesh sizes available) |
| Large basket kit: | holds 32 incubation baskets (13 mm diameter) |
| Slide kit: | holds 60 standard microscope slides |

More information: Please contact us at info@intavis.com or visit www.intavis.com

INTAVIS Bioanalytical Instruments, Widdersdorfer Str. 248-252, 50933 Köln, Germany
Phone: +49-221-502 94 68-0, Fax: +49-221-502 94 68-9
USA Phone: 1-773-572-5799, Fax: 1-773-305-1845, Toll free: 1-800-587-0085