

The professional profile of PhD-holders

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Core business

PHASE 1 Skill development

Formal certification in pedagogical animation ("Animation pédagogique - Les techniques pour bien animer une formation") and targeted competency valorisation (DocPro ABG).

PHASE 1 Expertise and methods

In vivo functional imaging: Acquisition and analysis of murine transthoracic echocardiography, specifically quantifying right ventricular systolic function via Tricuspid Annular Plane Systolic Excursion (TAPSE). In vivo delivery & handling: Hydrodynamic tail-vein injections and rodent handling protocols. Molecular biology & microscopy: PCR optimization and validation of fluorescence imaging protocols for mKate.

Personal and relational qualities

PHASE 1 Communication

Techniques acquired in group animation, interactive teaching, and transmitting technical knowledge to non-specialist or student audiences.

PHASE 1 Open-mindedness and creativity

Interdisciplinary breadth acquired through cross-domain university seminars ("Séminaire de psychanalyse et psychiatrie: histoire et enjeux actuels").

PHASE 1 Integrity

FUN MOOC certification: "Intégrité scientifique dans les métiers de la recherche" (Université de Bordeaux, 2026). Focuses on rigorous experimental traceability, reproducibility, and ethical conduct in research.

PHASE 1 Listening and empathy

Tailoring technical explanations to different academic levels: translating scientific concepts simply for a high-school student while providing detailed protocol guidance for an M1 trainee.

Business

PHASE 1 Project management

management and value creation

Iterative planning and method development: progressing from construct design to protocol troubleshooting, assay validation, and imaging quality control.

PHASE 1 Managing risks

Minimizing biological variability and animal loss during complex hydrodynamic delivery by adhering to physiological fluid limits and injection pressure timing.

PHASE 1 People management

Direct supervision and mentoring: Structured onboarding and daily supervision of a high-school intern and an academic research project for a Master 1 student. Task delegation, progress monitoring, and guidance on laboratory notebooks and basic experimental execution.

PHASE 1 Producing results

Delivering functional, reproducible Standard Operating Procedures (SOPs) for both fluorophore (mKate) imaging and target-specific gene amplification.