



**MICROINJECTION**

## Give us your biological material, get your specific opportunistic pathogen-free (SOPF) mice.

Bridge the gap between your *in vitro* and *in vivo* models by accessing the microinjection services offered at our state-of-the-art lab, conveniently located near Lyon, France. Our experienced technicians use cutting edge equipment and techniques to prepare and inject your embryonic stem (ES) cells or genetic material (CRISPR, Plasmid, BAC) into mouse preimplantation embryos to achieve successful embryonic manipulation and a high birth rate.

**Why Charles River?**

*Delivery of SOPF mice*

*AAALAC-accredited facility*

*Strict biosecurity protocol*

*Large capacity*

*Secure global delivery*

*Large service portfolio*

*Varied genetic backgrounds panel (CRISPR & DNA injection)*



ES Cell Injection	DNA Injection	CRISPR Injection
<p><b>Package I</b></p> <ul style="list-style-type: none"> <li>• Injection into approximately 80 embryos</li> <li>• Reimplantation into SOPF foster female</li> <li>• Husbandry and weaning</li> <li>• SOPF health report</li> </ul> <p><i>Delivery of chimeric mice</i></p>	<p><b>Package I (For Plasmid Vectors)</b></p> <ul style="list-style-type: none"> <li>• Injection into as many as 400 embryos (C57BL/6)</li> <li>• Reimplantation into SOPF foster female</li> <li>• Husbandry and weaning</li> <li>• Sample collection for genetic testing</li> <li>• SOPF health report</li> </ul> <p><i>Delivery of transgenic mice</i></p>	<p><b>Package I</b></p> <ul style="list-style-type: none"> <li>• Injection into 200 embryos (C57BL/6)</li> <li>• Reimplantation into SOPF foster female</li> <li>• Husbandry and weaning</li> <li>• Sample collection for genetic testing</li> <li>• SOPF health report</li> </ul> <p><i>Delivery of transgenic mice</i></p>
<p><b>Package II</b></p> <p>Package I +</p> <ul style="list-style-type: none"> <li>• Breeding to first generation (F1)</li> <li>• Sample collection for genetic testing</li> </ul> <p><i>Delivery of heterozygous F1 mice</i></p>	<p><b>Package II (For BAC Injections)</b></p> <ul style="list-style-type: none"> <li>• Injection into as many as 500 embryos (C57BL/6)</li> <li>• Reimplantation into SOPF foster female</li> <li>• Husbandry and weaning</li> <li>• Sample collection for genetic testing</li> <li>• SOPF health report</li> </ul> <p><i>Delivery of transgenic mice</i></p>	<p><b>Additional services</b></p> <ul style="list-style-type: none"> <li>• Breeding to F1 generation</li> <li>• Genotyping of offspring</li> <li>• Off-target analysis on F1 animals</li> <li>• Other genetic backgrounds available on request</li> </ul>
<p><b>Additional services</b></p> <ul style="list-style-type: none"> <li>• ES cell karyotyping</li> <li>• Customised ES cell genetic characterisation</li> <li>• Customised genotyping of offspring</li> </ul>	<p><b>Additional services</b></p> <ul style="list-style-type: none"> <li>• Breeding to F1 generation</li> <li>• Customised genotyping of offspring</li> <li>• Other genetic backgrounds available on request</li> </ul>	<p><b>Special discounts available for service bundles (Embryology, Genetic Testing, Breeding and Health Monitoring). Contact us for more information.</b></p>