

**Study Proposal Application**  
*TTFields in the Lab*

**INOVITRO™**

TTFields Cell Culture System

**INOVITRO™ live**

TTFields Time-Lapse Microscopy System

**INOVIVO™**

TTFields *In Vivo* System

**General Information**

*The inovitro™ and inovitro™ live systems are preclinical laboratory research systems intended for the treatment of cancer cell lines using Tumor Treating Fields (TTFields). The systems enable researchers to study the effects of TTFields in vitro. The systems are not to be used for in vitro diagnostics and should not be used on humans.*

*The inovivo™ system is a preclinical laboratory research system that enables researchers to study the effects of TTFields in animal tumor models. The system is designed to apply TTFields to subcutaneous and/or orthotopic tumors located in the thorax/abdomen of mice or other small rodents with an intact immune system. The system can run in TTFields application mode or in heat mode which is the control standard for TTFields in vivo experiments.*

*Investigators may apply for a grant from Novocure, Inc. using this form, to receive the inovitro and/or inovivo systems for the duration of their project. Grant awardees will be supplied with the requested systems, which include: inovitro - a TTFields generator, base plate, ceramic dishes, cords and cables, computer, and software; inovivo – a TTFields generator, 4 cages, designed to house 2 mice each with a minimal barrier between the animals, transducer arrays to support the duration of the study, cords and cables, computer, and software.*

*Complete each section as fully as possible. Send completed forms to [inovitro@novocure.com](mailto:inovitro@novocure.com). A written letter will be provided should the study proposal be approved. A fully executed material transfer agreement is required prior to the initiation of the study.*

Submission Date (MM/DD/YYYY)	
Investigator Name	<i>Please attach copy of CV</i>
Medical and/or Research Specialization	
<b>Information/Organization</b>	
Institution Name	
Address	
Country	
Email	
Phone	
Fax	

Overview																			
Study Title																			
Disease State																			
Study Type	<i>Please describe: anti-mitotic, immunogenic, genomic, etc.</i>																		
Study Setting	<input type="checkbox"/> <i>in vitro</i> <input type="checkbox"/> <i>in vivo</i>																		
Requested Support	<ul style="list-style-type: none"> <li>• in vitro™ system (includes: TTFields generator, base plate, ceramic dishes, flat cable, mini USB cable, computer loaded with software; see in vitro™ User Manual for additional information)               <ul style="list-style-type: none"> <li>- Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul> </li> <li>• Number of in vitro™ systems requested (each system contains eight 25 mm ceramic petri dishes)               <ul style="list-style-type: none"> <li>- 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> other __ (please provide an explanation)</li> <li>-</li> </ul> </li> <li>• in vitro™ live system for TTFields application during live-cell imaging (includes: TTFields generator, in vitro™ live split cable, ceramic cylinder insert, cover heating element, flexible tube, and computer loaded with software; see in vitro™ User Manual for additional information)               <ul style="list-style-type: none"> <li>- Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul> </li> <li>• Refrigerated CO<sub>2</sub> incubator (Refrigerated CO<sub>2</sub> incubator is required for the work with the in vitro system)               <ul style="list-style-type: none"> <li>- Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul> </li> <li>• in vivo™ system (includes: 4 cages designed to house 2 mice each with minimal barrier between the animals, 8 swivels, generator, 8 in vivo™ cables between generator and swivel, mini USB cable, computer, and software; see in vivo™ User Manual for additional information)               <ul style="list-style-type: none"> <li>- Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul> </li> <li>• Number of in vivo™ systems requested               <ul style="list-style-type: none"> <li>- 1 <input type="checkbox"/> 2 <input type="checkbox"/></li> </ul> </li> <li>• Type and number of animal arrays needed for the first year               <table border="1" data-bbox="630 1402 1464 1591"> <thead> <tr> <th colspan="2">Type</th> <th>TTFields</th> <th>Sham/ Heat</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Torso</td> <td><i>Wide*</i></td> <td></td> <td></td> </tr> <tr> <td><i>Narrow</i></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Subcutaneous</td> <td><i>Left</i></td> <td></td> <td></td> </tr> <tr> <td><i>Right</i></td> <td></td> <td></td> </tr> </tbody> </table> </li> </ul> <p>*Torso wide arrays fit animals weighing ≥24 g</p> <ul style="list-style-type: none"> <li>• Other (please describe)</li> </ul>	Type		TTFields	Sham/ Heat	Torso	<i>Wide*</i>			<i>Narrow</i>			Subcutaneous	<i>Left</i>			<i>Right</i>		
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Subcutaneous	<i>Left</i>																		
	<i>Right</i>																		
Overall Study Duration																			
Study Details																			
Specific Aims																			

Background and Rationale	
Preliminary Studies (if applicable)	
Research Design and Methods	
Implications for Clinical Practice	
References	

**Study Timelines**

Letter of Intent Decision to MTA	<i>Timeline in months</i>
Study Start	
Study End	
Publication Plan	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> Initial Data (Abstract): <i>Conference/Meeting; Est. Date</i></li> <li>• <input type="checkbox"/> Final Data (Manuscript): <i>Journal and/or Conference/Meeting; Est. Date</i></li> </ul>

**Feasibility Questionnaire**

Personnel:

- Do you have dedicated experienced personnel on site to conduct this study?
  - Yes  No
- If yes, please provide additional information on the positions and the number of personnel:
  - Post-Doctoral Fellow
  - PhD Student
  - Research Technician
  - Other

<p>Experience with TTFIELDS:</p> <ul style="list-style-type: none"><li>• Have you had any prior experience with TTFIELDS in the preclinical or clinical setting? -</li><li>• Will you collaborate with another research group? -</li></ul>
<p>Infrastructure:</p> <ul style="list-style-type: none"><li>• Please provide information on laboratory infrastructure and equipment relevant to the proposed research. -</li><li>• Please provide information on animal facility (if applicable). -</li></ul>
<p>Funding:</p> <ul style="list-style-type: none"><li>• Have you applied for any of the AACR-Novocure Tumor Treating Fields Research Grants? - Yes <input type="checkbox"/> No <input type="checkbox"/></li><li>• If yes, will you continue with the invitro grant application in case no support from AACR is granted? - Yes <input type="checkbox"/> No <input type="checkbox"/></li><li>• Have you previously received any grants from Novocure for TTFIELDS research? Please provide details: - Yes <input type="checkbox"/> No <input type="checkbox"/></li><li>• Additional Support: other sources of funding/supplies (attach details on the external support)</li></ul> <p>Note: These answers will not affect chances of invitro grant acceptance.</p>
<p>Future directions and ability to translate to clinical practice:</p> <ul style="list-style-type: none"><li>• Do you intend to translate the findings of this study to animals and/or clinical studies? - Yes <input type="checkbox"/> No <input type="checkbox"/></li><li>• If yes, please describe.</li></ul>