Project Outline - PhD Program Medical Faculty HHU Düsseldorf

(Please fill in electronically.)

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| 1. General Information on Doctoral Project |

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| Doctoral Candidate |
| *(Last Name, First Name)* |
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| Thesis Supervisor |
| *(Please use this format: Title First Name Last Name Institute / Clinic)*  Univ.-Prof. Dr. med. Martina Musterfrau  Klinik für Musterforschung  Medizinische Fakultät  Heinrich-Heine-Universität Düsseldorf |
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| Co-Supervisor |
| *(Please see example above.)* |
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| Additional Supervisor(s) (if applicable) |
| *(Please see example above.)* |
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| Theme Cluster | | | | | |
| *(Please tick appropriate cluster.)* | | | | | |
|  | Molecular Medicine |  | Diagnosis and Therapy of Diseases |  | Health and Society |

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| Preliminary Title of PhD Project |
| *(This is the working title of your project. The title may change during the course of your research.)* |
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| Institute / Clinic, where Thesis will be prepared: |
| *(Please give full address, including street and ZIP/postal code.)* |
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| 2. Abstract (max. 300 words) |
| *Summary of proposal in plain language* |
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| 3. Introduction/Background (500 words) |
| *Brief overview of the background, including state of the art, description of thesis’ rationale, information on own preliminary work, if applicable.* |
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| 4. Research Objectives and Hypotheses (max. 200 words) |
| *Aims and specific objectives of project. State your research aims precisely as questions or hypotheses. State your objectives (what exactly do you plan to do to answer the research question). Relate them to the current state of research. Define the novelty of the concept and the degree of innovation. Describe your own future contribution.* |
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| 5. Scientific Proposal / Work Program (max. 1000 words) |
| *Concise description of research methodology, study design, patient recruitment and enrolment / trial (experimental) phase, sample description, analytical / research methods (routine methods, established methods, will a new method be established?) Hardware available? Consumables provided? Statistical data analysis: independent variables, dependent variables, covariates, analytical method. Sample size determination or power calculation (Is estimated sample size sufficient/appropriate?) (How) is statistical support provided?*  *For other research approaches (e.g. qualitative approaches), the methods and work program must be described accordingly.* |
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| 6. Time Line/Tentative Time Plan |
| *Outline of schematic work plan and tentative timetable: place an emphasis on the first year’s estimated schedule / timeline, milestones (Gantt Chart by month is recommended.), estimated total time of project duration.* |
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| 7. Financial Provision |
| *Financial provisions for the doctoral researcher for the duration of the project, e.g. fellowship, research associate, Financial provisions for other required personnel (if applicable) and consumables, research equipment, bench space etc. (for this PhD project).* |
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| 8. Mandatory Statement on Vote of Ethics Committee / Licence for Animal Experimentation |
| *Will you require a vote of the ethics committee / a licence for animal experimentation for your thesis project? (Please note: patient enrolment is only possible after approval by the Ethics Committee. Project / personal licences for animal experimentation have to be granted before starting the thesis project.) Please indicate reference number, date of approval and name of applicant.* |
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| 9. References (max. 1 page) |
| *List of all references cited in proposal.* |
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| 10. Signature of Doctoral Candidate, Thesis Supervisor, Co-Supervisor, Additional Supervisor |

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| Place, Date |  | Signature of doctoral candidate |
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| Place, Date |  | Signature of thesis supervisor, official stamp of institute/clinic |
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| Place, Date |  | Signature of co-supervisor, official stamp of institute/clinic |
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| Place, Date |  | Signature of additional supervisor, official stamp of institute/clinic |