Guide for Applicants

The information in this guide refers to the following three options:

a. First-time application for the title “FACHPHARMAKOLOGE DGPT”/”FACHPHARMAKOLOGIN DGPT” and “EUROPEAN-CERTIFIED PHARMACOLOGIST (EuCP)”
b. First-time application for the title “EUROPEAN-CERTIFIED PHARMACOLOGIST (EuCP)” by senior pharmacologists
c. Renewal of the title “EUROPEAN-CERTIFIED PHARMACOLOGIST (EuCP)”

***Training Committees*, elected by the DGP and the DGKliPha**

First-time applicants for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and “European-certified Pharmacologist (EuCP)” shall contact the members of the *Training Committee* of the respective societies according to their membership before sending their documents. In case of dual membership, the applicant is free to choose the responsible *Training Committee*.

When applying for the first time for the title "European-certified Pharmacologist (EuCP)" or renewing it, applicants are requested to send their documents to the responsible *Training Committee* according to their membership or, in case of uncertainty, to contact the *Training Committee* in advance.

Training Committee of the German Society for Pharmacology (DGP):

Prof. Susanne Lutz, Institute of Pharmacology and Toxicology, University Medical Centre Göttingen Susanne.Lutz@med.uni-goettingen.de

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Training Committee of the German Society for Clinical Pharmacology (DGKliPha):

Prof. Dr. med. Renke Maas, Institute of Experimental and Clinical Pharmacology and Toxicology

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A) General information for applicants

1. Prerequisites

The title "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" is awarded by the German Society for Pharmacology and Toxicology (DGPT) to its members upon application. Applicants are encouraged to

apply for the title “European-certified Pharmacologist (EuCP)” in addition, which is awarded by the EuCP Committee of the federation of European Pharmacological Societies (EPHAR) and the European Association for Clinical Pharmacology and Therapeutics (EACPT) upon recommendation by the national *Training Committee* without further evaluation.

Both titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and “European-certified Pharmacologist (EuCP)” are to recognize high standards of knowledge, skills, experience and professional standing of primarily scientists with a background in life sciences or similar, which are professionally engaged in the field of Pharmacology or Clinical Pharmacology.

Approved physicians with a primary interest in pharmacology or clinical pharmacology are encouraged to pursue the national board certification in "Specialist Physician for Pharmacology and Toxicology or for Clinical Pharmacology". Likewise, veterinarians are encouraged to pursue the national board certification in “Veterinary specialist for Pharmacology and Toxicology”. However, physicians or veterinarian are also eligible to apply for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and/or "European-certified Pharmacologist (EuCP)" to complement their expertise, if they meet the further requirements set in Annex I and II.

Senior pharmacologists may only apply for the title "European-certified Pharmacologist (EuCP)".

The title "European-certified Pharmacologist (EuCP)" expires after 5 years and must be renewed by submitting an update on activities in the field of pharmacology or clinical pharmacology.

Applications are welcome at any time. The initial review of the submitted documents may take up to 4 weeks. The *Expert Talk* can take be considered.

<u>1a) Applying for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)"</u>

Applicants should provide evidence of 5 years of experimental and/ or clinical pharmacological activity following completed university studies in life sciences or similar (degree M.Sc., Diploma, or equivalent), pharmacy (state exam, M.Sc. or equivalent), or in medicine or veterinary medicine (state exam, other degrees). This activity must be carried out on a full-time basis in a university institute, hospital or equivalent institution recognized by the DGPT as a training institution (for further information see B2). The completion of a scientific doctorate (Dr. rer. nat., PhD, or similar) at a recognized training institution can be credited with up to 4 years of further training. The type of funding and the percentage of salary has no influence on recognition as full-time work if the training institution confirms full-time activity.

The counting of time spent on the medical doctoral thesis for the required training period depends on the respective conditions (e.g. semester of leave). To clarify this question, applicants shall contact their *Training Committee* in advance.

In the case of part-time work during or outside the doctoral phase, the period of further training is extended accordingly.

An activity completed in the field of anatomy, biology, biochemistry, experimental medicine, genetics, human genetics, immunology, clinical chemistry, clinical medicine, microbiology, molecular medicine, morphology, pathology, pathophysiology, pharmacy, physiology, toxicology or virology under the supervision of a qualified specialist in that field can be credited to the further training for up to 1 year.

Furthermore, during the 5-year training period, the applicant must provide evidence of the minimum requirements in pharmacological and/or clinical pharmacological training listed in Annex I in the form of 30 European Credit Transfer and Accumulation System credits (ECTS) and 3 publications related to pharmacology. Proof shall be provided, if possible, by certificate(s) from the training institution (s) or the DGP/DGKliPha/DGPT.

Recognition of credits from previous education, e.g. studies and doctorate, is possible after examination of corresponding proofs by the responsible *Training Committee*.

1b) Applying only for the title "European-certified Pharmacologist (EuCP)" by senior pharmacologists

Senior pharmacologists can apply for the for titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)" as described above (including the Expert Talk) or for the "European-certified Pharmacologist (EuCP)" only. In this case there is no Expert Talk. Applicants for the "European-certified Pharmacologist (EuCP)" only must be actively working in the field of pharmacology at the time of application. Eligible are persons who have been awarded the title "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT". Furthermore, all DGP/DGKliPha members of German state or federal institutions with a habilitation or a comparable degree in pharmacology or clinical pharmacology as well as appointed professors of pharmacology or clinical pharmacology with at least 5 years of professional experience in pharmacology are eligible to apply. In unclear cases, e.g., for applicants who work primarily in industry but are also affiliated with a state or federal institution, please contact the relevant *Training Committee* beforehand.

1c) Renewal of the title "European-certified Pharmacologist (EuCP)"

Renewal of the title "European-certified Pharmacologist (EuCP)" is only possible if the applicant is still active in the field of pharmacology or clinical pharmacology and can prove the professional commitment in this field.

2. Documents to be submitted

2a) Applying for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)"

Applicants are asked to provide written documentation of their training and previous work. In brief, the following must be submitted:

i. Checklist (Annex II)
ii. Curriculum vitae with at least 3 publications or other authorships related to pharmacology
iii. Certificates of academic and/or governmental degrees (B.Sc., M.Sc.; Diploma, state exam, doctoral degree, showing the requirement for continuing education)
iv. Confirmation(s) from the supervisor(s) of the further training on the further training period completed by the applicant at the recognized training institution
v. Evidence of the further training (for details see Annex I and Annex II: Checklist)

2b) Applying only for the title "European-certified Pharmacologist (EuCP)" by senior pharmacologists

Senior pharmacologists are asked to provide the following documents (Annex III):

i. CV in DFG (German Research Foundation) style with all relevant information on scientific activities
ii. Brief summary of teaching activities

iii. Copies of relevant certificates ("Fachpharmakologe DGPT"/"Fachpharmakologin DGPT", Habilitation, appointment, or others)

2c) Renewal of the title "EUROPEAN-CERTIFIED PHARMACOLOGIST (EuCP)"

To renew the certificate, the following documents must be submitted (Appendix IV):

i. CV in DFG (German Research Foundation) style with a focus on the last 5 years, with documentation as a minimum requirement:
   2 peer-reviewed publications or other authorships related to pharmacology within this period
   2 active participations in pharmacological conferences (national or international)
ii. Brief summary of teaching activities in the last 5 years
iii. Copy of newly obtained relevant certificate(s), if applicable

3. Expert Talk

3a) Applying for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)"

A consultation and preliminary review of the documents by the *Training Committee* one year before the final application is submitted is recommended. Upon final application, the *Training Committee* examines whether the documents are sufficient. When all requirements are fulfilled, the *Training Committee* will notify the applicant and schedule an *Expert Talk* with the applicant and two members of the DGP or DGKliPha as examiners. One of the examiners should preferably be a member of one of the *Training Committees*, all examiners must have no conflicts of interest.

The content of the *Expert Talk* is the candidate's scientific and technical expertise and general pharmacological knowledge according to the given information in the checklist. The *Expert Talk* lasts a minimum of 45 minutes and a maximum of 1 hour.

If the skills and knowledge of the applicant correspond to the level of knowledge to be expected after the completed further training, the board awards the recognition as "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)".

If the candidate's performance does not meet the requirements, the examination can be repeated twice. If the two examiners have a different assessment of the candidate's performance, the examination can be repeated with a new constellation of examiners. If the candidate wishes to appeal against the result, this must be addressed to the DGP or DGKliPha Board.

3b) First time application of senior pharmacologist and for renewal of the title "European-certified Pharmacologist (EuCP)"

No *Expert Talk* is required.

4. Maintenance of Certifications

i) "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT"

The authorization to use the title "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" expires with the end of the membership in the DGP or DGKliPha.

ii) "European-certified Pharmacologist (EuCP)"

On a 5-year basis, European-certified Pharmacologists shall reaffirm their certification credentials and submit documentation of the continued professional practice and continuing professional development. As a minimum, to remain registered, a EuCP must be employed or be active or seek employment in the field of Pharmacology/Clinical Pharmacology and must submit the requested documents *(Annex IV)* to the responsible *Training Committee*.

Failure to produce sufficient evidence to support re-certification results in the revocation or termination of the certification as European-certified Pharmacologist.

B) Implemented regulations

1. General information

Award of the professional titles "Fachpharmakologe DGPT"/ Fachpharmakologin DGPT" and/or "European-Certified Pharmacologist (EuCP)" confirms that an applicant is qualified for independent research in at least one important research subfield of experimental or clinical pharmacology and is able to evaluate pharmacological or clinical pharmacological research in all fields.

1a) Combined application for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-certified Pharmacologist (EuCP)"

The applicant is asked to provide written documentation, a certificate of completion of at least 30 ECTS credits in accordance with Annexes I and II, and an expert interview to demonstrate that the applicant has comprehensive knowledge in one research subfield of experimental or clinical pharmacology, in-depth knowledge in two further research subfields and basic knowledge in half of the remaining fields. To obtain the title “European-certified pharmacologist” no additional documents or tasks are necessary, however, an approval fee of 50€ will be charged.

1b) First time application for the title "European-certified Pharmacologist (EuCP)" by senior pharmacologists

Senior pharmacologists must be actively working in the field of pharmacology at the time of application and send the required documents according to annex III. No *Expert Talk* is required. An approval fee of 50€ will be charged.

1c) Renewal of the title "European-certified Pharmacologist (EuCP)"

The title "European-Certified Pharmacologist (EuCP)" expires after 5 years. A renewal is only possible when the applicant is still working in the field of pharmacology and can prove continued professional practice. The requirements are listed in annex IV. An approval fee of 50 € will be charged.

2. Recognized training institutions

Every institution that maintains a research laboratory or clinic under the direction of a habilitated pharmacologist or clinical pharmacologist, a certified pharmacologist (preferably DGPT and/or EuCP), or a physician or specialist veterinarian for pharmacology and toxicology or clinical pharmacology, or, in particularly justified cases, a pharmacologist otherwise authorized by the *Training Committees* of the DGP or DGKliPha, may apply for recognition as a training centre. If you are not sure whether your institution qualifies as a training institution, please contact the responsible *Training Committee*.

3. *Training Committees*

Two pharmacologists elected by the general assembly of the DGP in the DGPT and two clinical pharmacologists elected by the general assembly of the DGKliPha in the DGPT form the responsible *Training Committees* "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-Certified Pharmacologist (EuCP)". The respective bords of the DGP or DGKliPha may appoint interim members to the committee to fill vacant positions between elections until the next general assembly. The term of office of the members shall not exceed 6 years, excluding interim membership.

4. Application procedure

The application for the award of the professional titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and/or "European-Certified Pharmacologist (EuCP)" shall be submitted to the responsible *Training Committee* depending on the membership of the applicant.

4a) Combined application for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-Certified Pharmacologist (EuCP)"

The following documents shall be attached to the application:

i. Completed checklist (Annex II)
ii. Curriculum vitae according to the checklist
iii. Certificates of academic and/or governmental degrees (B.Sc., M.Sc.; Diploma, state exam, doctoral degree, showing the requirement for continuing education)
iv. Confirmation(s) from the supervisor(s) of the further training on the further training period completed by the applicant.
v. Evidence of the further training (for details see Annex I and II: Checklist) of at least 5 years of specialized work at a suitable training institution. If applicable, evidence of work in the field of anatomy, biology, biochemistry, experimental medicine, genetics, human genetics, immunology, clinical chemistry, clinical medicine, microbiology, molecular medicine, morphology, pathology, pathophysiology, physiology, toxicology or virology, if this work is to be credited for a maximum of 1 year towards the period of further training. During the training period, a minimum of 30 ECTS must have been earned according to Annex I and II, which must be documented in the attached documents.

4b) First time application for the title "European-Certified Pharmacologist (EuCP)" by senior pharmacologists

The following documents shall be attached to the application (see annex III):

i. CV in DFG (German Research Foundation) style with all relevant information on scientific activities
ii. Brief summary of teaching activities
iii. Copy of the last relevant certificate ("Fachpharmakologe DGPT"/"Fachpharmakologin DGPT", Habilitation, appointment, or others)

4c) Renewal of the title "European-Certified Pharmacologist (EuCP)"

The following documents shall be attached to the application (see annex IV):

i. CV in DFG (German Research Foundation) style with a focus on the last 5 years, with documentation as a minimum requirement:

2 peer-reviewed publications or other authorships related to pharmacology within this period

2 active participations in pharmacological conferences (national or international)

ii. Brief summary of teaching activities in the last 5 years

iii. Copy of newly obtained relevant certificate(s), if applicable

The responsible *Training Committee* shall request missing documents or reject insufficient applications. If the applicant wishes to appeal against the decision, this must be addressed to the DGP or DGKliPha Boards.

5. Examination procedure: *Expert Talk*

In the case of application for the titles ("Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-Certified Pharmacologist (EuCP)" and after approval of the submitted documents by the responsible *Training Committee*, the applicant must demonstrate knowledge of pharmacology or clinical pharmacology in an *Expert Talk*. The procedure is as follows:

The *Training Committee* decides whether the submitted documents justify admission to the *Expert Talk*. In cases of doubt, the written documents can also be forwarded by the *Training Committee* to the DGP or the DGKliPha Boards. Once a positive decision has been made, the applicant will be notified and a date for the *Expert Talk* will be scheduled based on the applicant's suggestion. The *Expert Talk* can be held at any time of the year.

The *Expert Talk* will be carried out by the responsible *Training Committee* members of the DGP or DGKliPha and shall be conducted with at least two expert examiners. One of the examiners should preferably be a member of the *Training Committee*. All examiners must have no conflicts of interest. In the *Expert Talk* is to be determined whether the applicant has the general basic and/or clinical pharmacology knowledge as well as the deepened or comprehensive knowledge in the research areas indicated by the applicant. The *Expert Talk* lasts a minimum of 45 minutes and a maximum of 1 hour and can be repeated 2 times.

The result of the *Expert Talk* is communicated to the Boards of the DGP or DGKliPha in the form of a brief report on the results and a recommendation for acceptance or rejection. The Boards decide by simple majority on the basis of the documents and the results report; in the event of a tie, the DGPT board decides on acceptance or rejection. The Boards can order a new admission to the *Expert Talk* after one year at the earliest.

The Boards of the DGP and the DGKliPha may charge a reasonable fee for holding the examination and other expenses. The respective amount of the fee will be announced via the organs of the DGPT.

The travel expenses of the examiners shall be borne by the DGP or the DGKliPha, as appropriate.

6. Maintenance of Certification

The authorization to use the title "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" expires with the end of the membership in the DGP or DGKliPha.

The authorization to use the title "European-Certified Pharmacologist (EuCP)" expires after 5 years and for renewal, the applicant must be still active in the fields of pharmacology or clinical pharmacology and documents must be submitted according to Annex IV.

Annex I

First-time application for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-Certified Pharmacologist (EuCP)"

This annex specifies 20 of the required 30 ECTS (900 h working time) in terms of content as continuing education subjects (Table 1). Furthermore, it regulates individual recognition criteria.

Further training subjects

As part of the total of 30 ECTS (900 h of working time) to be proven, 20 ECTS must be completed in accordance with the below defined standards (= minimum requirement). The other 10 ECTS can be allocated as desired. In case of doubt, the *Training Committee* will decide on recognition of the training subjects.

Professional knowledge (minimum 9 ECTS) already acquired during studies can be recognized up to the extent specified. This must be proven by handing in details of the course (module description, number of hours, content or topic plan, examination result). The attendance of at least two Advanced Courses offered by the DGP or DGKliPha is required (0.5 ECTS).

Methodological skills (minimum 7 ECTS) can be recognized up to a maximum of 1 ECTS per subfield. These shall be proven in the form of original publications related to pharmacology in recognized international journals, where the applicant is an author and the corresponding author certifies in writing that the respective experiments were carried out by the applicant in persona. Alternatively, methodological skills may have been acquired in training courses or during a lab exchange, which shall be proven by giving details of the course and a certificate if available or a reference letter from the hosting supervisor.

Key qualifications (minimum 4 ECTS) can be recognized based on the performance achieved or proven by course certificates.

The following ECTS apply for authorships:

Original papers (published in recognized international journals)

- First or last authorship 2 ECTS
- Co-authorship 0.5 ECTS

Reviews (published in recognized international journals)

- First or last authorship 1 ECTS
- Co-authorship 0.25 ECTS

Research proposals (extramurally reviewed and funded)

- Main applicant 1 ECTS
- Co-applicant 0.25 ECTS

Patents (granted)

- Main owner 1 ECTS
- Co-owner 0.25 ECTS

Animal testing applications, genetic engineering applications, or similar (approved)

Main applicant 1 ECTS

Co-applicant 0.25 ECTS (with proven contribution to the application)

Clinical trial applications according to CTR or MDT (or international equivalent) (approved)

Prospective clinical trials

Main applicant 2 ECTS (1 ECTS ethics part, 1 ECTS drug authority part)

Co-applicant 0.5 ECTS (with proven contribution to the application)

Other clinical trials

Main applicant 1 ECTS (0,5 ECTS ethics part, 0,5 ECTS drug authority part)

Co-applicant 0.25 ECTS (with proven contribution to the application)

Human research applications to state accredited ethics board (ethics approval) outside CTR or MDR

Prospective studies involving human subjects

Main applicant 1 ECTS

Co-applicant 0.25 ECTS (with proven contribution to the application)

Retrospective clinical studies

Main applicant 0,5 ECTS

Co-applicant 0.25 ECTS (with proven contribution to the application)

Other authorships such as of book chapters, reports, or assessments for regulatory agencies are also credited as appropriate. Please contact your *Training Committee* for further information.

<u>The following ECTS apply for presentations:</u>

Oral presentation (conference, invited talk) 1 ECTS

Poster presentation (conference) 0.5 ECTS

The following ECTS apply for:

Subject	Field	Subfields	ECTS (minimum)
Professional knowledge in Pharmacology and/or Clinical Pharmacology	Scientific expertise Minimally 0.5 and maximally 2 ECTS per subfield Attendance of at least two Advanced Courses DGP or DGKliPha is required (0.5 ECTS)	See Annex II The attendance of at least two Advanced Courses offered by the DGP or DGKliPha is required (0.5 ECTS).	4.5
	General knowledge	See Annex II Knowledge in Pharmacodynamics and -kinetics is required	4.5
Methodological skills **(up to 1 ECTS per subfield)**	Basic methods and instrumental analytics in pharmacology and clinical pharmacology	Molecular biology, biochemistry, cell biology, instrumental analytics, Omic-methods, imaging, development and validation of analytical methods, drug or biomarker determination, etc.	3.5
	Pharmacological and or clinical pharmacological and/or toxicological and/or physiological methods	*In vivo, ex vivo* and/or *in vitro* techniques in animals or humans, e.g. organ bath measurements, electrophysiology, animal studies, etc. Assessment of pharmacokinetic and pharmacodynamic parameter *in vivo* and/or *in vitro* Measurement of (patho-) physiological parameters and /or (patho-)physiological effects, toxic effects or drug effects including drug interactions and adverse drug effects Pharmacogenetic analyses, e.g. regarding drug transport and metabolism	2.5

		Medication reviews, assessment of medication therapy safety Pharmacovigilance	
	In silico and computational methods	Omic data analysis, drug design, *in silico* modelling: binding, reaction, interactions of drugs, or other pharmacokinetic and/or pharmacodynamic modelling, pharmacoepidemiological assessments of clinical data	1
Key competences	Scientific writing	Original publications, reviews, reports, etc.	2
	Project planning and administrative writing	Grant proposals, patents, applications of animal experiment, genetic engineering, clinical study protocols, pharmacoepidemiological protocols, ethics, etc.	1
	Presentations	Oral presentation, poster	1

Exemplary ECTS calculation to :

A candidate holds as first authorship on a cardiovascular-relevant GPCR signalling pathways in a peer-reviewed journal. The by the candidate used methods were tissue engineering, cAMP analysis, contraction analysis, RT-PCR, and immunoblotting. The candidate presents the data at the German Pharm Tox Summit (GPTS) in a short talk and attends two Advanced Courses of the DGP and/or DGKliPha.

Professional knowledge	Scientific expertise	Cardiovascular	2 ECTS
		Signal transduction (Pharmacodynamics)	1 ECTS

		Two Advanced Courses	0.5 ECTS
Methodological skills	Molecular methods	RT-PCR	0.5 ECTS
		Immunoblotting	0.5 ECTS
		cAMP production	0.5 ECTS
	Physiological methods	Tissue engineering (main method)	1 ECTS
		Contraction analysis	0.5 ECTS
Key competences	Scientific writing	First authorship	2 ECTS
	Presentation	Oral	1 ECTS
Sum			**9.5 ECTS**

Annex II: Checklist

First-time application for the titles "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and "European-Certified Pharmacologist (EuCP)"

Please complete this checklist and submit it with your other documents via email to the members of the *Training Committee*.

Co-application for the title "European-Certified Pharmacologist (EuCP)"? No further documentation necessary, fee: 50€	Yes	No

Bank account details: XXX

Documents	**Specification**	**Yes**
CV	Personal data	
	Education	
	Professional experience	
	Publications related to pharmacology (divided in original publications, reviews, book chapters)	
	Reports or assessments for regulatory agencies	
	Conference contributions (oral presentations, posters, chairs) and invited talks At least one contribution at the GPTS is required.	
	Grants	
	Patents	
	Awards	
	Membership in societies DGP or DGKliPha is required.	
	Reviewer activity	
Certificates	Undergraduate degree	
	Postgraduate degree	
	State exam	
	Doctoral degree	
	Habilitation	

Confirmation of the supervisor of the training institution	Confirming the duration of training and the expertise of the candidate	

1. Specific expertise and further educational training

Please provide documentation and certificates, if available.

Please note that the information provided below is the basis for the *Expert Talk*.

Ia) Professional knowledge: Scientific expertise

It is required to prove your expertise either by publications (incl. the dissertation) or a reference letter from your supervisor.

Scientific expertise	**Specification**	**Primary expertise**	**Secondary expertise**
Please select **one to three** topics for your primary expertise and at least two topics for your secondary expertise. Please provide **PDF files** of three publications related to your pharmacology expertise (at least one first or last authorship) or other proves for your expertise (e.g. reports for authorities etc.). If you are a co-author, please list your contribution on a separate sheet. Provide patent numbers and owners, if available.	Pharmacodynamics (incl. signal transduction)		
	Pharmacokinetics		
	Pharmacogenomics		
	Pharmacovigilance		
	Pharmacoepidemiology		
	Pharmacoeconomics		
	Cardiovascular pharmacology		
	Cancer pharmacology		
	Immunopharmacology		
	Neuropharmacology		
	Gastrointestinal pharmacology		
	Renal pharmacology		
	Endocrine pharmacology		
	Hepatic pharmacology		
	Pharmacology of sex hormones or other steroids		
	Drug interaction		
	Drug development and/or drug testing		

Development of models for drug testing		
Clinical trials		
Drug approval and drug law		
Toxicology		
Other (please specify):		

Ib) Professional knowledge: General knowledge in pharmacology

Basic knowledge is expected in at least half of the given subjects. Knowledge in Pharmacodynamics and Pharmacokinetics is required. Documentation of the further knowledge in pharmacology and/or clinical pharmacology shall be documented.

General pharmacology knowledge	**Specification**	**Acquired in class**	**Teaching experience**	**Other**
First column: Please check all subjects you have studied in university or other formal education. Second column: Please check all subjects you have taught. Third column: Please check all subjects in which you have basic knowledge acquired through other opportunities. Please specify your choices on a separate sheet (e.g. module descriptions, class schedules, certificates or similar).	Pharmacodynamics (incl. signal transduction)			
	Pharmacokinetics			
	Pharmacogenomics			
	Pharmacovigilance			
	Pharmacoepidemiology			
	Pharmacoeconomics			
	Cardiovascular pharmacology			
	Cancer pharmacology			
	Immunopharmacology			
	Neuropharmacology			
	Gastrointestinal pharmacology			
	Renal pharmacology			
	Endocrine pharmacology			
	Hepatic pharmacology			
	Pharmacology of sex hormones or other steroids			

	Drug interaction			
	Drug development and/or drug testing			
	Development of models for drug testing			
	Clinical trials			
	Drug approval and drug law			
	Toxicology			
	Other (please specify):			

2. Methodological skills

Please fill in the table according to your technical expertise. It is required to prove the expertise either by publications related to pharmacology (incl. the dissertation), by handing in course descriptions, or a reference letter from a supervisor (own institution or a hosting institution in case of an external lab exchange).

Technical expertise	**Specification** (the list can be extended, when necessary)	**Practical experience**	**Theoretical knowledge**
Basic methods and instrumental analytics in pharmacology and clinical pharmacology: Molecular biology, biochemistry, cell biology, instrumental analytics, Omic-methods, imaging, development and validation of analytical methods, drug or biomarker determination, etc.			

Pharmacological and or clinical pharmacological and/or toxicological and/or physiological methods*:* *In vivo, ex vivo* and/or *in vitro* techniques in animals or humans, e.g. organ bath measurements, electrophysiology, animal studies, etc. Assessment of pharmacokinetic and pharmacodynamic parameter *in vivo* and/or *in vitro* Measurement of (patho-) physiological parameters and /or (patho-) physiological effects, toxic effects or drug effects including drug interactions and adverse drug effects Pharmacogenetic analyses, e.g. regarding drug transport and metabolism, medication reviews, assessment of medication therapy safety, pharmacovigilance			

***In silico* and computational methods:** Omic data analysis, drug design, *in silico* modelling: binding, reaction, interactions of drugs, or other pharmacokinetic and/or pharmacodynamic modelling, pharmacoepidemiological assessments of clinical data			

3. Advanced Courses in Pharmacology or Clinical Pharmacology by the DGPT

Attendance of at least two Advanced Course in Pharmacology or Clinical Pharmacology is required. Please provide the certificate(s).

Numbers of attended courses (minimum two), years of attendance	

4. Key competences and other relevant courses, knowledge, skills, etc.

Subject (The list can be extended as required.)	**Practical experience**	**Theoretical knowledge**	**Certificate yes/no**
GLP, GCP, GMP or similar			
Regulatory affairs			
Animal experimentation course			
Biosafety course			
Radiation protection course			
Scientific writing			
Administrative writing (patent, applications of animal experiment, genetic engineering, etc.)			
Project management			
Presentation techniques			

5. ECTS calculation table

Subject	Field	Subfields	ECTS
Professional knowledge in pharmacology and/or clinical pharmacology	Scientific expertise Min. 0.5 and max. 2 ECTS per subfield Attendance of at least two Advanced Courses DGP/DGKliPha is required (0.5 ECTS) **Min. 4.5 ECTS**		
	General knowledge **Min. 4.5 ECTS**		
Methodological skills (up to 1 ECTs per subfield)	Basic methods **Min. 3.5 ECTS**		
	Pharmacological /Clinical Pharmacological methods **Min. 2.5 ECTS**		

	In silico methods: **Min. 1 ECTS**		
	Other		
Key competences	Scientific writing **Min. 2 ECTS**		
	Project planning and administrative writing **Min. 1 ECTS**		
	Presentations **Min. 1 ECTS**		
Other			
Sum (min. 30 ECTS)			

Annex III

First-time application for the title "European-Certified Pharmacologist (EuCP)" by senior pharmacologists

Eligible are persons who have been awarded the title "Fachpharmakologe DGPT"/"Fachpharmakologin DGPT" and all DGP/DGKliPha members of German state or federal institutions with a habilitation or comparable degree in pharmacology or clinical pharmacology as well as appointed professors of pharmacology or clinical pharmacology with at least 5 years of professional experience in pharmacology.

Applicants must be actively working in the field of pharmacology or clinical pharmacology at the time of application.

A fee of 50€ will be charged.

Bank account details

Checklist:

Documents	**Specification**	**Yes**
CV in DFG style	Including personal data, education, professional experience, publication list, etc.	
Certificates	"Fachpharmakologe DGPT"/"Fachpharmakologin DGPT", habilitation, appointment, specialist certificate (Board exam), etc.	
Short description of teaching activities	Study programme, module, extracurricular activities, etc.	

Annex IV

Renewal application for the title "European-Certified Pharmacologist (EuCP)"

The title "European-Certified Pharmacologist (EuCP)" expires after 5 years and must be renewed by handing in the documents listed below. Applicants must be actively working in the field of pharmacology or clinical pharmacology at the time of application and provide evidence for their activities in the field of pharmacology or clinical pharmacology.

A fee of 50€ will be charged.

Bank account details

Checklist:

Documents	**Specification**	**Yes**
Updated CV in DFG style	Including personal data, education, professional experience, publication list, etc.	
Documents suitable to claim activities in the field of pharmacology or clinical pharmacology	In the last 5 years: 2 scientific publications or patents related to pharmacology obtained and/or personal active participation at 2 scientific conferences (session chair, talk or poster presentation) and/or proof of continued employment at an accredited institution in the field of experimental and/or clinical pharmacology and/or toxicology. and/or or proof of continued participation in scientific projects in the field of pharmacology and/or clinical pharmacology and/or toxicology. and/or proof of continued teaching activity in the field of pharmacology and/or clinical pharmacology. and/or newly obtained qualifications in the field of pharmacology and/or clinical pharmacology (habilitation, professorship or academic teaching appointment, specialist certificate (Board exam), etc.)	

Documents suitable to claim	In the last 5 years: 2 visits of conferences in the field of pharmacology and/or clinical pharmacology and/or toxicology (national or international) and/or participation in 2 teaching / continued education activities in the field of pharmacology and/or clinical pharmacology	