MARIE SKŁODOWSKA-CURIE AKCIÓK

PÁLYÁZATÍRÁSI TRÉNING

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EXCELLENCE -1.1.

- ***Quality and credibility of the research/innovation action, level of novelty, appropriate consideration of inter/multidisciplinary and gender aspects***

ERŐSSÉGEK

- The state-of-the-art is fully described and well referenced. The current challenges and issues in the field are identified and solutions to solve them are proposed. (ST)
- The objectives are well presented against the state-of-the-art and involve novel concepts and clear advances in the field. (ST)
- The project is highly innovative, with unprecedented experiments integrating replication and metabolism in a chemical system. If successful, it will open up new lines of research in Systems Chemistry. (ST)
- The methodology is clearly presented, suitable for the objectives of the project and appropriate controls are included to ensure the significance of the results. (ST)
- Project objectives are clearly defined and the proposed research methodology is appropriate and credible. The authors rely on preliminary results and previous expertise of both the host group and the researcher. (ST)

EXCELLENCE 1.1

- The proposal has excellent level of interdisciplinarity aspects (biology, ecology, computer sciences, anthropology, and environmental sciences). (GF)
- Clear objectives and corresponding design (ST)
- The project is interdisciplinarity in its concept: the academic laboratory studies in the field of organic synthesis are combined with approaches practiced in chemical industry. (ST)
- The preliminary results validate the feasibility of the proposed methodology. (ST)
- The project well complements the researcher's existing knowledge and will extend it further in the area of expertise at the host research group. (ST)

EXCELLENCE 1.2. -GYENGESÉGEK

- Comparison with alternative state of the art techniques is insufficiently discussed. (ST)
- The chosen field is well known, the individual elements of the project are not novel. (ST)
- Both the methodology and the approach are missing project-specific details.
- The description how the research will open up career possibilities for the researcher is not specifically addressed. (ST)
- The innovative aspects of the research is limited and based on standard techniques. (ST)
- The different work packages are not clearly supported by credible research hypotheses. (ST)

EXCELLENCE 1.2

Quality and appropriateness of the training and of the two way transfer of knowledge between the researcher and the host

- The previous experience of the researcher matches perfectly the objectives of the project, and previous knowledge will be incorporated into the project research plan. Furthermore, the researcher will also get into a new field of study. (ST)
- A wide range of complementary training (official programme for scientific staff, project management skills, leadership skills, supervising MSc and PhD students, waste management, etc.) is planned at the host institution. (ST)
- The project and collaboration with internationally recognized research groups provides very good prerequisites for opening the career possibilities for the researcher. (ST)
- A clear plan for transferring the researcher's knowledge to the host group is presented. (ST)
- A specific training will be given to the researcher both in terms of research knowledge (new techniques) and soft skills (e.g. teaching, supervising students). The host offers a number of courses which will be made available for the researcher. (ST)
- The researcher training program covers a wide range of techniques and subjects. (ST)
- Training will be implemented by an excellent mixture between special courses and complementary practical experience in project management, teaching and scientific writing. (ST)
- The training would involve training-through-research, attendance to courses and collaboration with different team members, and acquisition of transferrable skills including project management and grant writing. (ST)

EXCELLENCE 1.2

- There is a clear description of how the researcher will transfer knowledge acquired during the outgoing phase to the host institution and these transfers are translated into deliverables. (GF)
- The fellowship would contribute to enhance collaborative networking between the host institution and the outgoing institution. (GF)
- The researcher will have good opportunities to transfer their area expertise through seminars, presentations, supervision and teaching. (GF)
- Appropriate training activities are described that include attendance of courses in entrepreneurship, innovation, management and transferable skills during both the outgoing and the incoming phases of the project. (GF)
- The host institution offers a good array of training opportunities that will be beneficial to the researcher for relaunching an academic career. (CAR)
- The researcher's career development plan includes training on transferable skills and provide excellent opportunity for career development, leading to increased future employment opportunities. This plan will be continuously revisited to ensure that career goals have been met. The skills to be acquired include coordinating and investigating independent research proposals, mentoring, training, and supervising PhDs and postdocs, budgeting, efficient time and project management and administrative aspects related to research. (RI)

EXCELLENCE 1.2. - GYENGESÉGEK

- Since the research experience of the applicant and host are very closely related, a mutual benefit is not evident (ST.)
- Additional skills to be gained in non- technical scope, like communication and negotiation abilities are insufficiently considered. (ST)
- The transfer of scientific knowledge from the host to the applicant is not convincingly addressed as the CV of the applicant indicates already gained skills matching those targeted to be transferred (ST)
- Skills training of the researcher focuses excessively on high impact publications instead of transfer of knowledge. (ST)
- The on-the-job training described covers a range of techniques that the researcher is already familiar with and does not adequately reflect the instrumental capability of the Host. (ST)

EXCELLENCE 1.2. - GYENGESÉGEK

- The researcher has already good experience in teaching at university and supervising students as postdoc which decreases the amount of possible transfer of knowledge in soft skills. (ST)
- The training strategy is limited only to "training through research". The training topics are not clearly defined, and the training activities are not properly identified in the Gantt Chart. (ST)
- The opportunities for new international networking promoted by the outgoing and return hosts are not addressed in sufficient detail. (GF)
- The proposal fails to describe adequately how the knowledge and skills will be transferred from the researcher to the host institution during the outgoing phase. The proposal talks about sharing competencies, but does not adequately explain how this will be done. (GF)
- The two way transfer of knowledge is not sufficiently described, e.g. It is not specified how the researcher would gain managerial, organizational and research skills other than by training -through research, and it is also unclear how the researcher's knowledge would be transferred to the host institution. (GF)

EXCELLENCE 1.3

Quality of the supervision and of the integration in the team/institution

- Supervisor:
  - The supervisor is a well-established scientist, with extensive experience in both research and in training experienced researchers. Also, the host has a large international network of collaborations which the researcher will have access to. (ST)
  - The supervisor is the recipient of two prestigious ERC grants and has been involved with the mentoring of many researchers. (ST)
  - Significant supervision experience, high number of PhDs and postdocs
  - Experience in managing EU funding programmes
  - Complementary profile of host and researcher
  - Secondary supervisor – added value (also: remote supervisor)
- Integration in the team
  - The host organisation has clear plans for integrating the researcher into the group and has experience in hosting international researchers. (ST)
  - The proposal describes well several ways of integration of the researcher (group meetings, informal discussions, communication between groups) in the host organization. (ST)
  - The hosting arrangements are credibly addressed in terms of available office space, good communication between different groups, group meetings. (ST)
  - Regular seminars help integration
  - Members of the host lab involved

Excellence 1.3

- Integration into the host institution in the outgoing phase would be excellent, given the possibility for the researcher to manage a small research team (GF)
- It is positive that both supervisors are involved in the creation of a career development plan.(GF)
- Beside both supervisors with the previous supervising experiences, there are a few other professors at both locations planning to assist in the training process of the researcher according to their expertise (GF)
- The researcher has already spent a 3-month period working in the team and so integration will be straightforward (GF).
- A career development plan will be drafted and the host network will enable the researcher to broaden both academic and industrial contacts internationally. (CAR)

Excellence 1.3. Gyengeségek

- The proposal does not fully demonstrate the extensive experience of both supervisors in mentoring young researchers. (ST)
- The proposal does not sufficiently elaborate on the quality of the research group as a whole. (ST)
- The supervisor has limited experience in supervising PhD students and participating in international research programs. (ST)
- There are limited details on how the researcher will be involved in the work of the actual team of researchers apart from collaboration with the supervisor and being a part of the wider academic community. (ST)
- The experience of the supervisors in training is not described. (GF)
- The concrete measures through which the researcher would be integrated in the research environment and would interact with other experts at the host are not presented in sufficient detail. (CAR)

Excellence 1.4.

***Potential** of the researcher to reach or re-enforce a position of professional maturity/independence during the fellowship*

- The researcher has an outstanding track record of publications, demonstrating interdisciplinarity knowledge, leadership skills and independent thinking. This scientific track record strongly supports the possibility to achieve significant outcomes from the project. (ST)
- The science activity shows that the researcher is able to carry out the research in an interdisciplinarity team, and publish papers in a very good high impact journals. (ST)
- The researcher has published a good volume of papers demonstrating an already good scientific maturity. The new research experience acquired during the fellowship will provide new opportunities to re-enforce an independent position in research. (ST)
- The researcher demonstrates high potential to reach a position of professional maturity and independence. This capacity is justified through high impact, peer reviewed articles, course prizes, supervision of undergraduates and industrial and international experience. The applicant expresses good motivation to take complementary training and to improve the scientific track record. (ST)
- The researcher has excellent records of international mobility and scientific publications. In addition, the researcher has already delivered a good number of oral presentations, some of them as invited speaker, at national and international symposia. The researcher has already acquired experience in teaching at the undergraduate level and in the supervision of MSc and PhD students. It is demonstrated that the researcher has already acquired scientific maturity. (ST)

Excellence 1.4 - GYENGESÉGEK

- It is insufficiently discussed how the researcher will gain professional independence as a result of the proposed research, because the discussion lacks explicit examples on how this will be achieved. (ST)
- The proposal does not clearly specify how the researcher's past personal experience and proposed research contribute to the Professional development as an independent mature researcher during the fellowship. (ST)
- Communication skills (including language), as well as trans-national mobility capabilities of the researcher are not sufficiently demonstrated, as the applicant attended only conferences in the home-country and most of them are with poster participation. (ST)
- Supervision of undergraduate students is not planned thereby undermining management experience. (CAR)
- It is not sufficiently clear how the fellowship will contribute to enhancing the researcher's professional maturity beyond their already established independence, given their experience in running their own laboratory or having a role of principal investigator. (RI)

IMPACT

Enhancing the future career prospects of the researcher after the fellowship

- The researcher would benefit from the interdisciplinarity training provided and by the host's extensive set of courses, for example in leadership, networking (through a COST action), communication, mentoring, management and business skills, etc., which are all needed to further advance a research career. (ST)
- The proposal convincingly demonstrates that the researcher will develop knowledge and leadership ability to start new collaborations with both academia and industry. (ST)
- The researcher will be prepared for an academic position, new grant applications and postdoc grants. The proposal clearly presents the added value of the secondment to his future career. (ST)
- The researcher will further enhance the already established scientific network, through contacts with the hosting institution's collaborators, beneficial for their future research endeavors. (ST)

IMPACT 2.1. - ERŐSSÉGEK

- The researcher has a clear professional goal: to obtain an academic position. The proposal makes a convincing point describing four areas where the researcher will gain important new skills. (ST)
- The host institution is committed to helping the researcher with future grant applications to launch an independent career. (ST)
- Both supervisors have international collaborations, which may allow the researcher to establish new international academic contacts.(GF)
- The methodological, conceptual, managerial advances, the communication, dissemination and teaching skills to be gained, the new language knowledge, the additional technological competences are all very beneficial for the future career prospects of the researcher. (GF)
- The main aim of the researcher upon completion of the mobility is to compete for a permanent position in Europe or the United States, which will indeed be facilitated by the acquisitions gained during the proposal. (GF)
- The proposal clearly explains the new skills and competencies that will be acquired during the fellowship, in terms of subject specific expertise, research and methodological skills and general transferable skills. The proposal outlines a suitable personalized training programme, including workshops on research strategy development, public engagement, and preparation for grant applications. (CAR)

IMPACT 2.1 - GYENGESÉGEK

- Career goals of the researcher are not clearly formulated. (ST)
- The programme aims at positioning the researcher to hold an independent academic post, yet the researcher is already a research professor in a third country teaching courses and co-supervising PhD students. The purpose of the training is thus not fully convincing. (ST)
- The researcher already has significant expertise in the proposed research field; the proposal fails to demonstrate the development of additional relevant skills and competencies. (ST)
- The proposal names diverse skills (lecturing, management, leadership), which the researcher would develop thanks to the proposal, but is vague as to how this would happen. (ST)
- The impact of the proposal on enhancing the researcher's career prospect is addressed in general terms. The proposal does not sufficiently well describe how the acquired expertise would contribute to the researcher's prospects of an independent research position. For instance, the impact of establishing professional research networks or collaborations is not adequately elaborated. (GF)

IMPACT 2.2 - ERŐSSÉGEK

Quality of the proposed measures to exploit and disseminate the project results

- The intellectual property issues are appropriately considered. (ST)
- The measures to disseminate the action results to the scientific community, including the organization of a dedicated workshop and participation in international conferences, are of good quality. (ST)
- The proposed measures to disseminate and communicate the project results to both the scientific international community, to the industry sector and to the broad public are very well planned. (ST)
- The plan for the dissemination of results is adequately presented; it is based on publication of results, participation in international conferences and university meetings. Additional actions, such as internal exchange and networking events, are well outlined and will be implemented to increase the visibility of the project results among other researchers. (ST

IMPACT 2.2

- The knowledge generated during the implementation of the action will be exploited by the researcher in collaboration with the supervisor, who holds extensive expertise in this issue, with an external partner having relevant experience and with the hosting institution's administration. (ST)
- The dissemination programme, for the scientific community, is well planned, in terms of high impact publications, e.g. Journal of the American Chemical Society, Angewandte Chemie, Chemistry of Materials, and Advanced Energy Materials, where between 5 to 10 publications are planned to be submitted during the project. Conference presentations, e.g. the annual meeting of the International Society of Electrochemistry and specific battery forums are considered as well. (ST)
- The research programme has a good potential for transferability of results to other market applications, beyond transport. The proposal demonstrates a strong exploitation strategy with very good focus on entrepreneurship and start-up activities. (ST)

IMPACT 2.2 - GYENGESÉGEK

- The dissemination plan is not fully coherent. It is missing more detailed planning and concrete indicators. (ST)
- The journals in which the dissemination activity is planned are not sufficiently well identified. (ST)
- The publication plan in highly ranked journals is not credible. (ST)
- Only two dissemination actions are shown in the Gantt Chart (ST)
- The scientific dissemination through conferences and seminars is very generic and vague. (ST)
- The dissemination strategy is not clearly outlined. For example, there is no clear reference to specific target journals, their quality or conference types and organisers. (ST)

IMPACT 2.3. - ERŐSSÉGEK

Quality of the proposed measures to communicate the project activities to different target audiences

- The measures for the dissemination of the project results for wider and different target audiences are frequent and of high quality and take into account different target groups. These are also scheduled in the Gantt Chart. (ST)
- The proposal describes a varied plan of outreach activities, including periodic contributions to popular science magazines, as well as direct public engagement activities, which would open up more opportunities to interact with potential industrial partners through this project. (ST)
- Communication support is available from the host, giving access to local media, the hosts' social media channels, activities at secondary schools, and participation in the European Researcher's Night. (ST)
- The proposed communication strategy is plausible and in accordance to the EU guidelines on research communication and European Charter for Researchers. Two-way communication between the researcher and different target audiences is positively enabled by use of appropriate tools, especially by using several multimedia instruments. (ST)
- Many concrete actions are considered by the researcher to reach a general audience such as BBC website and Science Net, Facebook. (ST)
- Outreach activities are novel, attractive and reasonably well-conceived. There is an outreach strategy with a detailed plan on how and where the results will be communicated to very different audiences, with different methods such as informative booklets or radio interviews

IMPACT 2.3 - GYENGESÉGEK

- The proposal is describing in very general terms the measures to communicate the activities to different target audiences. The specific actions and concrete planning for the dissemination are not provided. (ST)
- The proposal has not a clear communication plan to reach different audiences. The proposed plan is vague and based only on isolated events with scholars or similar ones, without a convenient set of actions for a wider public outreach. (ST)
- The proposal does not sufficiently consider online outlets such as social media and websites as channels to reach target audiences. (GF)
- The different target audiences that will be reached by the project are not identified with adequate detail. Insufficient information is provided about the arrangements or content in relation to lectures to be given to secondary school students. (GF)

IMPLEMENTATION

Coherence and effectiveness of the work plan including appropriateness of the allocation of tasks and resources

- ERŐSSÉGEK
- The work plan is coherent and credible, including well-defined tasks, milestones, deliverables, training events, and dissemination and communication plans. (ST)
- The work plan is well-structured and contains a reasonable number of work packages, in line with the scientific objectives. (ST)
- The proposal clearly shows the work plan of the proposed research in the form of Gantt Chart, which includes six WPs, dissemination milestones and training. (ST)
- A list of major deliverables and milestones is included. For each, the right amount of time has been planned and will allow the efficient monitoring of the work progress. (ST)
- The proposal contains a detailed Gantt Chart and work plan with sufficient information to enable effective monitoring of progress in both the outgoing and the incoming phases, e.g. Work packages, milestones, deliverables, short visits, and training, dissemination and communication activities. (GF)

IMPLEMENTATION 3.1 - ERŐSSÉGEK

- Management, Dissemination and Training are contemplated in three different work packages, which provides the project implementation with credibility as these components all have their own timing and deliverables. (GF)
- Participants of the project (researcher, supervisor, research team) have appropriately specified their workloads on planned scientific results. The overall proposed workload is sufficient to cover planned activities and workload on particular project phases is well-elaborated. Inclusion of supporting staff at the host is expected that is beneficial for the timely project implementation. (ST)

IMPLEMENTATION 3.1 - GYENGESÉGEK

- Certain milestones are foreseen at the end of the fellowship, which cannot serve as a quality check for the successful implementation of the action. (ST)
- Only three milestones is a very small number for a two year project to support the monitoring of the project.
- The Gantt Chart does not clearly indicate the allocation of person-months for each WP. It is unclear whether the allocated time is sufficient to fulfil all activities proposed. (ST)
- The content of some work packages is not discussed in detail and their duration is not clear from the Gantt Chart. The relationship between tasks and work packages does not contribute to make work plan fully understandable. (GF)
- There is a lack of intermediary points that can measure progress in research activities and in training, and in the production of the main outcomes. (CAR)

IMPLEMENTATION – 3.2. - ERŐSSÉGEK

Appropriateness of the management structure and procedures, including risk management

- The management of the action is credible and involves the researcher, the supervisor and the hosting institution's administrative offices. (ST)
- The monitoring processes for the action are credible and based on compulsory written quarterly reports by the researcher, weekly group meetings with the participation of the supervisor and quarterly specialized project meetings. Moreover, two external mentors will oversee the research progress of the action and will aid in the supervision of the researcher. (ST)
- The proposed regular meetings, periodic written progress and appraisal reports, and the well-defined milestones constitute high quality measures to ensure progress monitoring of the action. (ST)
- The institution has an appropriated management system in place to steer the research program. (ST)
- The management structure and procedures are clearly described both at the scientific and administrative levels. (ST)

IMPLEMENTATION – 3.2.

- The beneficiary's active contribution to the research and training activities is sufficiently described in terms of training, supervision, scientific networking as well as providing the necessary administrative support and office space to the researcher. (ST)
- The central management of the host university will help the researcher with the financial management. (ST)

GYENGESÉGEK

- Involvement of the fellow in the project management is not sufficiently detailed. (ST)
- The scientific monitoring plan of the research work is vague as it is mainly based on the decisions of the experienced researcher without a clear coordinated supervision of the host group leader and his principal collaborator. (ST)
- The proposal does not adequately explain the possible research or administrative risks that could endanger reaching the project objectives. (CAR)

IMPACT 3.3.- ERŐSSÉGEK

Appropriateness of the institutional environment (infrastructure)

- The quality of the infrastructure at the host institute is very well described and appropriate to successfully carry out the proposed research plan. (ST)
- The host group and institute have good expertise, equipment and infrastructure, and will constitute a suitable environment for the applicant's research work. (ST)
- The proposal describes convincingly how the infrastructures of the host and the secondments' institutions contributes to the research and training activities of the researcher. (ST)

IMPLEMENTATION 3.3 - GYENGESÉGEK

- The proposal is not specific enough about the contribution of the two host institutions to the research and training activities of the researcher. (GF)
- The commitment of the beneficiary and of the partner institutions with regard to providing administrative support is not sufficiently explained. (GF)
- The proposal does not sufficiently address the infrastructure, logistics, and the facilities of the host institution, which are necessary for the successful implementation of the project. (ST)

B2

- CV
- Capacity of the Participating Organisations
- Ethics
- Letter of Commitment (GF)

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