Proposal preparation team. Meeting n.2 – October 25, 2021

Participants: Y. Foka (YF), G. Bisoffi (GB), A. Lagoyannis (AL), A. Ioannidou (AI), F. Groppi (FG), A. Mamaras (AM), ..

The general schedule presented by YF on Meeting n.1 is confirmed.

Next meeting (meeting n.3): November 1, 8.30-9.30

Commitment for meeting n.3. (in blue who has to do each)
1. Review the section “Work plan and Resources” prepared by YF, propose possible correction and changes (all) – Link: https://www.dropbox.com/scl/fi/qgqoh43ccyrc83renpzkzw/Management-structure-and-decision-making.docx?dl=0&rlkey=43ednr509fhnwdah60wmmpy0
2. Fill in whatever can be filled in now of Part A, going through the Part A documents on the Dropbox page (all)
3. Prepare first draft of the research activity content and goals, on the basis of the discussion at this meeting (see below for more) (GB) – any reference document for that? Probably not, to be later distributed into abstract, excellence, impact etc, right?
4. Prepare the document on the benefit, deriving from the project to all participants, except AUTH (all except AUTH) – Link: https://www.dropbox.com/scl/fi/d93lbi5c0v6liegwwfcx9/Institute-description-and-benefits_TEMPLATE.docx?dl=0&rlkey=qy0uzg2jv4gjsyj4anvpxj0wb
5. Each to fill in a table with cost/month of permanent and temporary employees (levels of the people to be involved in the project proposal), postdocs, students (all)
6. Cost basis per month for students (materPhD) from AUTH, spending time abroad (AI to provide these numbers, all to check if no addition is required to top up, from local labs)

Discussion on the research content (basis of GB’s draft for next time).

Target of the project: increase capacity of AUTH on the topic of cancer treatment with better diagnosis and treatment tools, in particular medical radioisotopes for this proposal.

State initial assets at AUTH, with respect to competences and R&D on the target. Make reference to to Nuclear Medicine at the local hospital, with medical doctors and medical physicists. Include competence of Samaras (?), radiation physicist at AUTH with strong CV. AI or AL will send his CV to GB, for his discussion on Oct 26 with DZ.

(AI, asap, for Giovanni to include this part in the draft report for Meeting n.3)

AUTH is pairing with the other European Institutes involved, having specific experience on these topics

Research activities proposed.
Study on a selected number of innovative radioisotopes produced with a variety of accelerators and techniques. As for accelerators: compact cyclotron large cyclotron, compact linac. As for projectiles: p, d, alphas.

Beyond 2.2 MeV deuteron energy, a lot of neutrons produced and special attention on shielding and radioprotection to be paid. A comparison of the accelerators in terms of shielding and RP issues is necessary.
The basic idea is, on these selected, RIs, to compare the production routes. With the literature study, design activities, perhaps some experiments, the ultimate goal is to prepare a new generation of experts (nuclear physicists, medical physicists, accelerator physicists, radiochemists, radiobiologists - too many?) increasing their competence and awareness, being trained, being able to face the proposals and ideas of the future at AUTh in this branch of applied science, already at the level of present day R&D frontier, to foster a jump in competence at AUTh when their careers develop. Use of small cyclotron or compact linac then open for possible use at the local hospital, for instance.

FG: in a way, physicists have a role in making medical doctors aware of the potential behind these diagnosis and research tools.

*Underline synergies and no overlap with PRISMAP*

**GB memo of questions for his conversation on Oct 27 with INFN person in charge of international projects (Alessia D’Orazio).**

- Send part A INFN, with roles and codes of the Institute, for filling in
- Who has to prepare the letter of intent for INFN: INFN in Rome or LNL?
- Alessia as referent or EU-officer at LNL, for continuing discussing this proposal?
- What are the INFN “EU costs” for a postdoc, myself, Gaia, i.e. all people whose man-months are declared in the project for a fraction of their time?
- Will such global budget then be left with the project or will it go to INF and be ... lost from the project? (NOTE: IT IS A 100% EU FUNDED PROJECT, NO COFUNDING REQUESTED)
- The 25% overhead: how will it be distributed (if so) between INFN, LNL and the project?
- How long before the deadline shall the proposal have to be submitted to INFN for approval and in which form (or which part of the content)?
- Any standards about travel/subsistence costs for INFN people, when introduced in the budget?
- Do we have a “Gender equality plan”? If yes, is it available? If not, what is the standard INFN answer to the standard question from the EU in this respect?