

Processus de sélection - AAP générique 2018 étape 1

MUPIDE-4D

Coordinateur du projet

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EVALUATIONS CONCERNANT LE PROJET

MEMBRE DE COMITÉ (ÉVALUATION : 48788)

| | A EXCELLENT | B SATISFAISANT | C A CONFORTER |
|--|--|-------------------|------------------|
| Qualité et originalité des recherches proposées | | | |
| <ul style="list-style-type: none"> - CLARTÉ DES OBJECTIFS ET DES HYPOTHÈSES DE RECHERCHE - CARACTÈRE NOVATEUR, ORIGINALITÉ, PROGRÈS PAR RAPPORT À L'ÉTAT DE L'ART | X | | |
| | <p>Multi-scale softwares to account from the whole organism to molecular levels are important tools in computational biology and can reveal new feature of biological systems. However, it is not clear what is the mathematical or modeling development to be realized here. Is it simply to develop or improve a software? WP1 looks part of computer science study. WP2 is dedicated to representation of 4D nucleosome on gene and falls into this call. WP3: what is exactly the inference to be developed? it is not clear if new models or computations need to be developed. But , this aspect looks interesting.</p> | | |
| Organisation du projet et moyens mis en œuvre | | | |
| <ul style="list-style-type: none"> - COMPÉTENCE, EXPERTISE ET IMPLICATION DU COORDINATEUR SCIENTIFIQUE ET DES PARTENAIRES - QUALITÉ ET COMPLÉMENTARITÉ DU CONSORTIUM, QUALITÉ DE LA COLLABORATION | X | | |
| | <p>Pis have good records of publications.</p> | | |
| Impact et retombées du projet | | | |
| <ul style="list-style-type: none"> - CAPACITÉ DU PROJET À RÉPONDRE AUX ENJEUX DE RECHERCHE DÉFINIS DANS LE PLAN D'ACTION - IMPACT POTENTIEL DANS LES DOMAINES SCIENTIFIQUE, ÉCONOMIQUE, SOCIAL OU CULTUREL | X | | |
| | <p>Understanding chromatin organization is timely and clearly relevant to understand how the genome is organized and regulated in 3d. Recommendations: the mathematical aspect should more developed for the second step, if the project is selected. the Biology part is clear and relevant. If selected for step 2, a clear driving goal should be clearly proposed.</p> | | |

MEMBRE DE COMITÉ (ÉVALUATION : 37555)

| | A EXCELLENT | B SATISFAISANT | C A CONFORTER |
|--|--|-------------------|------------------|
| Qualité et originalité des recherches proposées | | | |
| <ul style="list-style-type: none"> - CLARTÉ DES OBJECTIFS ET DES HYPOTHÈSES DE RECHERCHE - CARACTÈRE NOVATEUR, ORIGINALITÉ, PROGRÈS PAR RAPPORT À L'ÉTAT DE L'ART | X | | |
| | <p>This is an ambitious and interesting interdisciplinary research project aiming at understanding the contribution of the nuclear organization on gene expression through a multifunctional and interoperable platform. The project is well structured and organized in 3 work packages that will allow the final integration of the spatial organization of chromatin together with the regulation of gene expression. The detailed description of each task is convincing of the pertinence of most of the scientific choices, e.g. the cell types, the selected genes, the techniques used (3D-FISH, 4C), and of the feasibility of the project.</p> | | |
| Organisation du projet et moyens mis en œuvre | | | |
| <ul style="list-style-type: none"> - COMPÉTENCE, EXPERTISE ET IMPLICATION DU COORDINATEUR SCIENTIFIQUE ET DES PARTENAIRES - QUALITÉ ET COMPLÉMENTARITÉ DU CONSORTIUM, QUALITÉ DE LA COLLABORATION | X | | |
| | <p>The four partners involved in this proposal present an excellent combination of knowledge and skills for the project. They have very complementary expertises in informatics, 3D imaging, 3D genome organization and epigenetics. The coordinator PI and his team have a good track record as well as the other partners. Previous collaborations between the 3 partners from the Clermont-Ferrand area provide important background to the project. Partner 4 (T. Forné, IGM, Montpellier) brings interesting additional competence and expertise in molecular biology techniques to investigate long-range chromatin interactions in relation with the 3D nuclear organization.</p> | | |
| Impact et retombées du projet | | | |
| <ul style="list-style-type: none"> - CAPACITÉ DU PROJET À RÉPONDRE AUX ENJEUX DE RECHERCHE DÉFINIS DANS LE PLAN D'ACTION - IMPACT POTENTIEL DANS LES DOMAINES SCIENTIFIQUE, ÉCONOMIQUE, SOCIAL OU CULTUREL | X | | |
| | <p>The project is interesting and fits the objectives of this interdisciplinary ANR. It is well structured and organized, with high potential impact in 3D image analysis, genetics and health. It is likely to shed a new light on genomic and epigenetic chromatin mediated regulation of gene expression during cell lineage commitment.</p> | | |