1. RESEARCH FELLOW: Computational and Integrative Genomics

Job Description

Provide expertise in conducting research activities, including but not limited to planning, organizing, conducting, and communicating research studies within the overall scope of the new Institute of Molecular and Translational Cardiology (IMTC) directed by Prof. Carlo Pappone, at the IRCCS Policlinico San Donato, Milan, Italy.

- Work with a dynamic group of scientists and champion projects on the systems-level integration of genetic, functional genomic and phenotypic data to identify causal determinants and pathways of cardiac diseases, including Brugada Syndrome.
- Application of qualitative and quantitative research techniques which include accurate in-depth assessment, interpretation and evaluation of next generation sequencing data sets, conceptualize new ideas and develop plans for independent research
- Write and review research papers, presenting research outcomes and develop connections with local and international researchers for collaboration work.
- Contribute to project management, provision of guidance to more junior researchers as well as undergraduate and graduate students, occasional educational/instructional activities.
- Maintain optimal experimental progress in the laboratory
- Perform other related duties incidental to the work described herein.

Job Requirements

- PhD in a related scientific area, including Bioinformatics, Computational Biology, Systems-Biology, or closely related disciplines
- Demonstrated experience in Bioinformatics and Integrative Omics analysis
- Demonstrated very good knowledge, skills and expertise, with potential to achieve research excellence in Computational and Integrative Biology
- Demonstrated hands on experience in data analysis and integrative statistical modelling of heterogenous -omics data, including RNA-sequencing, single-cell sequencing, whole-genome sequencing, proteomics, metabolomics, etc.
- Experience in integrative approaches of multi-omics data, network analysis and application to complex diseases
- Proficiency in programming, statistical data analysis and computation, e.g. R, C++/C/C#, Perl, Java, Python, etc.
- Outstanding communication in English.
- Ability to write research papers, as demonstrated by existing first-author publications in high impact journals.
- Outstanding interpersonal skills.
- Scientific and technical resourcefulness.
- Strong team player skills and the ability to work harmoniously with a diverse workforce

HOW TO APPLY:

Please email Enrico Petretto (email: enrico.petretto@duke-nus.edu.sg) or Luigi Anastasia (email anastasia.luigi@hsr.it)

DEADLINE

Position open from January 11, 2021 until filled.

2. RESEARCH FELLOW: Biomedical Data Science

Job Description

Provide expertise in conducting research activities, including but not limited to planning, organizing, conducting, and communicating research studies within the overall scope of a research project new Institute of Molecular and Translational Cardiology (IMTC) directed by Prof. Carlo Pappone, at the IRCCS Policlinico San Donato, Milan, Italy.

- Work with a dynamic group of scientists and champion projects on the systems-level integration of genetic, functional genomic and phenotypic data to identify causal determinants and pathways of cardiac diseases, including Brugada Syndrome.
- Application of qualitative and quantitative research techniques which include accurate in-depth assessment, interpretation and evaluation of next generation sequencing data sets, conceptualize new ideas and develop plans for independent research
- Write and review research papers, presenting research outcomes and develop connections with local and international researchers for collaboration work.
- Contribute to project management, provision of guidance to more junior researchers as well as undergraduate and graduate students, occasional educational/instructional activities.
- Maintain optimal experimental progress in the laboratory
- Perform other related duties incidental to the work described herein.

Job Requirements

- PhD in a related scientific area, including Data Science, Computer Science, Machine Learning, Computational Biology, Systems-Biology, or closely related discipline
- Knowledge of the scientific background relevant to Data Science
- Demonstrated experience in statistical data analysis of large-scale -omics datasets, including RNA-sequencing, single-cell sequencing, whole-genome sequencing, proteomics, metabolomics, etc.
- Demonstrated experience in computational methods particularly in the areas of high-dimensional data modeling, Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL)
- Proficiency in programming and statistical data analysis and computation, e.g. R, C++/C/C#, Perl, Java, Python, etc.
- Outstanding communication in English.
- Ability to write research papers, as demonstrated by existing first-author publications in high impact journals.
- Outstanding interpersonal skills.
- Scientific and technical resourcefulness.
- Strong team player skills and the ability to work harmoniously with a diverse workforce

HOW TO APPLY:

Please email Enrico Petretto (email: enrico.petretto@duke-nus.edu.sg) or Luigi Anastasia (email anastasia.luigi@hsr.it)

DEADLINE

Position open from January 11, 2021 until filled.