

**** 1st position **** Revising the population genetics of partially asexual organisms **A post-doctoral position**

of 16 months, to start ideally on November 1st or shortly thereafter, is available at INRA Rennes (Western France). The candidate will work in the framework of a National research project (ANR Clonix:

<http://bit.ly/1fNF4U0>

and

<http://bit.ly/VSvnyC>

) aiming at providing new tools to understand the ecology and evolution of partially clonal organisms. In the context of a revision of "neutral" expectations in terms of genetic characteristic of populations presenting asexual reproduction, the candidate will work in parallel on a set of synthetic dataset derived from simulations and mathematical developments, and from varying organisms exploring different mode of asexuality. The objectives of the postdoc will be 1) to revisit the "neutral" expectations and identify the characteristic distributions of Multi Locus Genotypes under cyclical parthenogenesis, 2) use already-developed (by the team) mathematical method to infer the clonality from temporal empirical and simulated dataset. Analyses and publications of both mathematical methods and their applications will be the main goals of this postdoc. She/He will contribute in validating new mathematical and statistical methods to infer evolutionary forces from partially asexual populations that will be later aggregated within an update of GenClone software. This postdoc will be performed in close interaction with Sophie Arnaud-Haond and one synergetic postdoc (Ifremer, Sete), Fabien Halkett & Stephane de Mita (INRA, Nancy) Thierry de Meeus (IRD) and Myriam Valero (CNRS, Roscoff). Requirements: (1) PhD with a strong background in population genetics, (2) Good experience of team work, (3) writing skills and (4) programming skills (preferably C/C++ or python). Phd student that should defend their doctoral thesis before the end of 2014 are also encouraged to apply. Interested candidates should apply

by September 21th

by sending an email with: 1. A small text including the detail of your skills and competences in line with this postdoctoral position. 2. A detailed curriculum vitae. 3. A short summary of work previously done, mentioning the date of submission of the thesis. 4. A list of publications and communications / symposia. 5. Two letters of recommendation. Contacts:

- Solenn Stoeckel

solenn.stoeckel@rennes.inra.fr

researcher at the Institute for Genetics, Environment and Plant Protection, INRA, AgroCampus Rennes, University Rennes1, F-35653 Le Rheu, France; phone:

[+33 \(0\)2 23 48 70 83](tel:+33223487083)

- Sophie Arnaud-Haond

Sophie.Arnaud@ifremer.fr

researcher at UMR212 EME (Exploited Marine Ecosystems), Ifremer, F-34203 Sete, France; phone:+33 (0)4 99 57 32 61 **** 2nd position ****

ANR Clonix:

Revising the population genetics of partially clonal organisms

A post-doc position of 18 months, to start ideally on November 1st or shortly thereafter, is available at Ifremer- Ste/Montpellier (Southern France).

The candidate will work in the framework of a National research project

(ANR Clonix: <http://bit.ly/1fNF4U0>) aiming at providing new tools to understand the ecology and evolution of partially clonal organisms. In the context of a revision of [UTF-8?]â neutralâ expectations in terms of genetic characteristic of populations presenting asexual reproduction, the candidate will work in parallel on a set of synthetic populations derived from simulations and on empirical data on a diversity of organisms with various types of clonality (corals, seagrasses, algae, aphids, human [UTF-8?]pathogensâ Š).

The objectives will be to i) test for the influence of sampling strategy

on the reliability of clonality estimates by testing for the accuracy of two families of estimators, those derived from Multi Locus Genotypes characterization and those based on multi-genetic parameters, and ii) infer the impact of clonality on migration and genetic structure among demes in a metapopulation system.

She/He will also contribute in building an update for an existing

software (GenClone) including, based on results obtained, the necessary improvement in terms of estimators and indices used to characterize the occurrence and extent of clonality, and its influence on the dynamics of natural populations. The work will be performed in Ste in close interaction with Solenn Stoeckel (INRA, Rennes) and with other partners of the project including Fabien Halkett & Stphane de Mita (INRA, Nancy) and Thierry de Meeus (IRD) and Myriam Valero (CNRS, Roscoff). Requirements: (1) PhD with a strong background in population genetics, (2) programming skills (preferably C/C++, an experience with Delphi will be appreciated). (3) Good experience of team work (4) writing skills.

Interested candidates should apply by September 8th by following the

guidelines provided at the following link: <http://bit.ly/URMeRe> (Please note that electronic submissions are welcome and handwriting letter not requested) Contact: Sophie Arnaud-Haond Sophie.Arnaud

@ifremer.fr

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<http://bit.ly/1senEHt>

<http://bit.ly/URMeRf>

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