



Fundació Hospital Universitari Vall Hebron - Institut de Recerca (VHIR)

FILE No.: 2018-036 IMMUNOSEQUENCING SERVICE

**TECHNICAL SPECIFICATIONS
NON HARMONISED CONTRACTING – OPEN PROCEEDINGS**

IMMUNOSEQUENCING SERVICES ON B-CELL RECEPTORS (BCRS) AND T-CELL RECEPTORS (TCRS) USING A NEW GENERATION SEQUENCING PLATFORM FOR THE SYSTEMIC DISEASES RESEARCH GROUP OF THE FUNDACIÓ HOSPITAL UNIVERSITARI VALL HEBRON- INSTITUT DE RECERCA (VHIR).

Co-funded by the European Regional Development Fund (ERDF).



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Clause 1. Purpose of the tender.

The purpose of these technical specifications is the contracting of immunosequencing services on B-cell receptors (BCRs) and T-cell receptors (TCRs) using a new generation sequencing platform for the Systemic Diseases Research Group of the Fundació Hospital Universitari Vall Hebron- Institut de Recerca (VHIR), in charge of the Competitive Research Project entitled:

"Biomarcadores de actividad en la artritis reumatoide. Estudio transversal y prospectivo basado en la inmunosecuenciación de anticuerpos y receptores TCR."

[*"Biomarkers of activity in rheumatoid arthritis. Cross-sectional and prospective study based on the immunosequencing of antibodies and TCR receptors".*] (PI17/00019).

Clause 2. Estimated value and maximum budget for tender:

The estimated value and maximum budget for this tender are the same.

The total maximum budget for this tender is **EIGHTY THOUSAND EUROS (€ 80,000.00)** which, with the amount corresponding to VAT, which amounts to **SIXTEEN THOUSAND EIGHT HUNDRED EUROS (€ 16.800'00)**, the total value amounts to **NINTHY-SIS THOUSAND EIGHT HUNDRED EUROS (€ 96.800'00)**.

As will be detailed below, the provision of services will consist in the determination of the immune repertoire of patients with rheumatoid arthritis (AR).

The service will consist in the determination of the immune repertoire of **n = 210 RNA samples**. Each total RNA will form a service unit to be carried out.

Therefore, the maximum total budget for each service unit (*) to be carried out shall be:

Price per unit (immune repertoire, TCR & BCR):

€380.95, plus 80€ VAT = €460,95.

(*) This price may be improved by bidders in their submissions.

Considering that the immunosequencing analysis of 210 RNA samples will be required, the maxim total price of the service amounts to **€ 80,000.00 + VAT**.

Clause 3. Duration of the contract.

This contract is expected to be in force until **31 December 2020** at the latest, this being the date for the completion of Competitive Research Project **PI17/00019**. Nevertheless, should this project be subject to the request of a possible extension for whatever reason



that cannot be foreseen as of now, it would likewise be possible to extend the duration of the service up to the ultimately authorised date at the latest.

Clause 4. Place of provision

The samples to carry out the service will be sent to the successful bidder, who will have to execute it at their own facilities and send the results to the Project (PI17/00019) directed by Dr. Antonio Julià Cano, head of the Rheumatology Research Group of VHIR (GRR-VHIR), located on the 5 floor, Tower I, of the Parc Científic de Barcelona.

Clause 5. Technical specifications of the service.

The provision of services will consist in the determination of the immune repertoire of patients with rheumatoid arthritis (AR).

- The service is based on the amplification and sequencing of the complementarity determinant region 3 (CDR3) from the mRNAs of the coding genes of the B-cell receptor (BCRs) and the T-cell receptor (TCRs) .

The BCR genes include: the gene of heavy immunoglobulin (Ig_H), the kappa immunoglobulin gene (Ig_κ) and the lambda immunoglobulin gene (Ig_λ).

The TCR genes include: the alpha TCR, the beta TCR, the delta TCR and the gamma TCR.

The service will consist in the determination of the immune repertoire of **n = 210 RNA samples (*)**. Each total RNA will form a service unit to perform.

- Sequencing must be carried out on a new generation sequencing platform (NGS).
- The starting material will be the total RNA of each sample sent by the GRR-VHIR with RIN > 6 (-20°C). The costs of sending the samples to the the successful bidder will be assumed by the GRR-VHIR.

- In the **price finally awarded**, the following conditions will be included:

-Control of quality, specific amplification of CDR3, sequencing and quality control of the final data.

-Identify the clonotypes present in each sample, for each gene.

-Submission a report of results.

-Submission of the files obtained (fastq, bam, and variants Excel).

-The response time should be less than 8 weeks after delivery of the samples.



-The shipping to the GRR-VHIR of the samples analyzed by the successful bidder.

Clause 6. General conditions

(*) The estimated value will be binding in no case, so the VHIR will pay the services executed invoices as the corresponding orders are made.

No type of subcontracting will be accepted for the services included in this contract.

Clause 7. Aspects that will be valued as improvements.

Although the products must have the technical characteristics indicated in the previous clause, bidders will be able to include the following improvements, which will be classified according to **Appendix number 2** of the Specific Administrative Administrative Terms and Conditions, in which they appear the award criteria:

1. Availability and technical advice of the commercial house, by phone or via email, with response times of less than 4 hours during working hours (from 9 a.m. to 5 p.m., Monday to Friday).
2. "Online" management system to guarantee the traceability of the entire process (orders, service status, results).
3. Offer a free re-sequencing, when the client considers that the results are amenable to improvement, although in accordance with the technical criteria the awarding company does not consider them to be failures.
4. Reduction of the response time, in relation to the table of clause 5.

Clause 8. Confidentiality, Protection of personal data, and Intellectual Property

Notwithstanding the provisions of current legislation on intellectual property, protection of personal data and confidentiality, the successful bidder will expressly commit itself not to provide the information and / or Data provided by the VHIR, or any use not provided for in this document, and / or expressly authorized by the Head of the assigned Unit.

The successful bidder will have to extend to the employees that adhere to the service, the obligations contained and assumed by the successful bidder, with reference to confidentiality, intellectual property and protection of Data, in particular those relating to the secret, the reservation and confidentiality of all the information that, under the service, may be aware of.



Clause 9. Award criteria.

The criteria stated below shall be assessed on the basis of **judgment values**. The award criteria to assess the contents of envelope No. 2 are the following:

TECHNICAL OFFER.....UP TO 50 POINTS.

9.1. Qualities and technical characteristics of the provision of the service (up to 40 points).

Bidders must present an organizational and service development proposal. This work plan must include: facilities and equipment, organization of the service (sample collection, technical execution, delivery of results, response time), monitoring and resolution of incidents.

9.2. Additional improvements (up to 10 points).

- ✓ Availability and technical advice of the commercial house, by phone or via email, with response times of less than 4 hours during working hours (from 9 a.m. to 5 p.m., Monday to Friday). (Up to 3 points).
- ✓ Management system "on-line" to guarantee the traceability of the entire process (orders, service status, results). (Up to 4 points).
- ✓ Offer a free re-sequencing, when the client considers the results are susceptible to improvement, although in accordance with the technical criteria the successful bidder does not consider them to be failures. (Up to 2 points).
- ✓ Reduction of the response time, in relation to the table of clause 5. (Up to 1 point).

Barcelona, on the 20th of November 2018

CONTRACTING ORGANISM
Dr Joan X. Comella Carnicé
Director

Fundació Hospital Universitari Vall Hebron - Institut de Recerca.