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**IGR/ZP/066/12/2018**

**ANNOUNCEMENT OF QUESTION  
for Whole genome Bisulfite Sequencing (WGBS)**

**1. Description of the subject of the contract:**

- 1) The object of the contract are services consisting in the whole genome Bisulfite Sequencing, using Illumina technology. The scope of the subject of the contract includes:
  - a) Library construction with bisulfite treatment, 250bp-300bp insert library
  - b) Sequencing using Illumina platform, pair-end 150bp
  - c) Bioinformatic analysis including:
    - Data quality control(filtering reads containing adapter or with low quality; Q20, Q30, error rate distribution, GC distribution, total bases)
    - Mapping onto reference genome(mapping rate, duplication rate, sequencing depth, reads coverage)
    - mCs detection, methylation level calculation:
      - ✓ Methylation level and frequency distribution in different sequence context (CG, CHG, CHH)
      - ✓ Methylation level and frequency distribution in different chromosomes
      - ✓ Methylation level and frequency distribution in different functional elements (promoter, 5'UTR, exon, intron, 3'UTR)
    - Differentially methylated regions (DMRs) detection and annotation
    - Function enrichment (Gene Ontology and KEGG Pathway) of DMR-associated genes
    - Visualization of BS seq data
- 2) The ordering party assumes a consecutive service; with the possibility of price negotiations related to the development of Illumina technology.

2. **Deadline for the contract:** the order should be carried out successively, each time within 9 weeks from the date of receipt from the Ordering Party of the tests specified in the order.

3. **Conditions for participation in the proceedings:**

The contractors who meet the conditions for participation in the procedure regarding technical or professional capacity may apply for the contract award.

*The conditions referred to above will be met if the contractor demonstrates that:*

- 1) during the last 5 years before the deadline for submitting bids, the contractor duly completed two or more services (completed contracts) of whole genome Bisulfite Sequencing using Illumina technology, with a value not lower than PLN 80,000 gross each;
- 2) has at least two people with minimum three years of experience in sequencing transcriptomes using the NGS method with Illumina technology.
- 3) the company should be cited at least in 5 peer-reviewed scientific journals with international peer-review system.

4. **Information on the method of communication between the awarding entity and the contractor, as well as the indication of persons authorized to communicate with the contractors:**

- 1) It is allowed to communicate using a registered letter or fax or electronically, however, the offer must be submitted in the form of an original in writing before the deadline referred to in point 8 of this notice.
- 2) Any questions to the proceedings should be directed to: [jdut@igr.poznan.pl](mailto:jdut@igr.poznan.pl)

5. **The period of being bound by the offer:** 30 days.

6. **Description of how to prepare offers:**

- 1) the offer will be made in accordance with the content of the Offer Form constituting attachment No. 1 to this announcement,
- 2) along with the Bid Form, completed and signed attachments No. 2-6 to this Announcement must be submitted,
- 3) each contractor will submit only one offer. Submitting more offers will result in the rejection of all bids submitted by the contractor,
- 4) incomplete offer will be rejected by the ordering party,
- 5) the offer will be written in Polish, on a typewriter, computer or by hand with a pen or indelible ink,
- 6) the offer must be submitted in the original or a photocopy certified for compliance with the original (each page) by the contractor or its representative.



## 7. Description of the method of price calculation

The price given in the Offer Form - attachment No. 1 to the Announcement must include all the costs of the implementation of the future contract. The price must result from the sum of all items in the Price Form - attachment No. 2 to the Announcement.

Applicable VAT rate: 23%

### WARNING:

The ordering party will regard the error in calculating the price as not being in accordance with the Polish payment system, based on:

- Art. 3 par. 1 point 1 and par. 2 of the Act of 9 May 2014 on information about prices of goods and services (consolidated text: Journal of Laws of 2017, item 1 830, as amended);
- Art. 31 of the Act of 29 August 1997 on the National Bank of Poland (consolidated text Journal of Laws of 2017, item 1373, as amended).

In accordance with the above regulations, the final price declared in the offer must contain the correct VAT rate and must be expressed in PLN to the nearest hundredth of the zloty, ie to the second decimal place.

## 8. Place and date of submission and opening of offers:

The offer must be submitted in writing in person or by mail / courier until **26/10/2018**, until **12:00** at the secretary's office of the Institute of Plant Genetics, Polish Academy of Sciences (room 124), 34 Strzeszynska street, 60-479 Poznan - on the attached Offer Form, in a sealed envelope with the note **"Response to a request for a genome sequencing service"**.

## 9. Description of criteria, which the contracting authority will be guided by when selecting the offer, together with the meaning of these criteria and the way of evaluating offers:

### 1) Price – 80 %

The offer with the lowest price will receive 80 points, and the other offers proportionally less according to the following formula:

$$\text{price} = \frac{\text{the price offered is the gross minimum}}{\text{the price of the gross tender being examined successively}} \times 80 \text{ points}$$

### 2) Deadline for implementation - 10%

Deadline for one analysis from the day the sample was taken by the contractor (assuming that the RNA isolate quality criterion is met) until the day the sequence data is placed on the server.

The offer can receive up to 10 points, awarded as follows:

9 weeks - 0 points

8 weeks - 4 points

7 weeks - 7 points

6 weeks - 10 points

3) Transport conditions - 10%

The offer may receive 10 points if the Contractor provides transport in controlled conditions (constant temperature -20°C)

Failure to provide transport under controlled conditions - 0 points

Providing transport under controlled conditions - 10 points

The offer that will receive the highest sum of points in the above offer evaluation criteria will be selected.

10. The provisions relevant to the parties that will be introduced to the concluded agreement are included in the attachment No. 7 to this Announcement - the draft contract.

Attachments to this Announcement:

1. Offer form
2. Price form
3. Declaration of compliance
4. List of services
5. List of persons
6. List of publications
7. The draft contract

Approved

DYREKTOR INSTYTUTU

*prof. dr hab. Bogdan Wolko*  
date, signature

18.10.2018