**RESEARCH PROGRAM(S) CHOICE**

Declaration regarding the order of preference of the research programs listed in Table 7 - Agricultural Sciences and Biotechnology of the Ph.D. Notice for the admission to the Ph.D. courses of the University of Udine A.Y. 2024/2025, 40° cycle.

Applicant’s name

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| RESEARCH PROGRAMS | ORDER OF PREFERENCE |
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I declare that I am aware that the research programs will be assigned by the Selection Committee on the basis of the ranking, the suitability of the candidate (see art. 10 of the Call) and the order of preference specified in the list above.

List of the research programs as Table 7:

***Curriculum A. Biology and plant production***

***A1****.* Role of effectors in the modulation of nitrogen acquisition in plants *(supervisor: Laura Zanin, co-supervisor: Nicola Tomasi)*

***A2****.* (FSE)Performance of multispectral / hyperspectral indexes and other non-destructive methods for the selective identification of grapevine biotic and abiotic stresses *(supervisor: Paolo Sivilotti)*

***A3****.* (FSE) Use of bacteria (PGPR) strains to enhance the resilience of crops growing in phosphorous-deficient inducing conditions *(supervisor: Nicola Tomasi, co-supervisor: Laura Zanin)*

***A4****.* Physiological responses of plants to abiotic stress in alpine environments *(supervisor: Marco Zancani, co-supervisor: Enrico Braidot)*

***A5****.* (FSE) MetaBench: assessment of performance of metagenomic approaches *(supervisor: Fabio Marroni)*

**A6**. Breeding of raspberry for qualitative traits and resistance to biotic stress *(supervisor: Guido Cipriani)*

***Curriculum B. Biology and livestock science***

***B1****.* Feed efficiency and methane emissions: new assessment approaches in cattle farms

*(supervisore: Mauro Spanghero, co-supervisore: Alberto Romanzin)*

***B2.***(FSE) Livestock-wildlife interactions in mountain dairy farm systems: socio-ecological and management implications *(supervisor: Edi Piasentier, co-supervisor: Marcello Franchini)*

***Curriculum C. Biology of pathogens and plant protection***

***C1.*** Investigations over epidemiological traits of grapevine yellows and molecular mechanisms underlying the pathogenesis of the associated phytoplasmas *(supervisor: Marta Martini, co-supervisors: Paolo Ermacora, Francesco Pavan)*

Date and applicant’s signature

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