



# CERTIFICATE

The Friedrich Schiller University Jena, represented by its Faculty of Biological Sciences, under President Dr. Walter Rosenthal, Professor of Cellular Signal Transduction, and Dean Dr. Maria Mittag, Professor of General Botany, herewith confers

**Seyed Mohammad Mahdi Rasa**

born on 20 May 1989 in Kashan

the academic degree

DOCTOR OF PHILOSOPHY  
Ph.D.

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He has demonstrated his academic qualifications in a regular doctoral examination procedure under the supervision of Dr. Francesco Neri and Professor Dr. Karl Lenhard Rudolph by submitting the doctoral thesis »**Characterization of the transcriptome, the epigenome, and the microbiome during aging: dietary restriction ameliorates inflammation**« (mark: 1,20) and upon a thesis defence (mark: 1,3), thus being conferred the overall final mark: **magna cum laude**.

Jena, 07 September 2021

The President

A handwritten signature in blue ink, appearing to read 'W. Rosenthal'.



The Dean

A handwritten signature in blue ink, appearing to read 'Maria Mittag'.