Pazuhesh Sounding Rocket
Carrier of the second Iranian Biospace Capsule

Iranian Space Agency
Astronautics Research Institute

Feb 2014, Vienna
Bio-Space Research

Life support
Study on Space condition
Study on Micro Gravity
Biological processes
mutation in plant or animal

[Images of various scientific research topics related to space]
Development of Iranian Space Laboratory for:

- Bio-space Research
- Functional and Environmental Development Laboratory of the Iranian Spacecraft Subsystems
### History of Kavoshgar Project

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<tr>
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The first biological payload contains:

- Rat
- Turtle
- Different types of cells
Kavoshgar Class C (Pishgam)

Mission definition:
Sending life to the space and its recovery

Mission requirements:

✓ Sending life to altitude 120 km
✓ Successful recovery
✓ Saving and sending all vital signs and environmental data to ground stations
✓ Developing of corresponding technology system such as, life supporting, recovery, telemetry, reentry and ...
✓ Study of challenges of sending man to space
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Landing shock Absorber
Passive Radiation Dosimeters
Design and Test for Environmental conditions
Desensitization and Adaptation

Vibration

acceleration
Kavoshgar pazuhesh flight profile

Motor
Separation
Micro Gravity
Nose Ejection
100 km
Reentry
Parachute Deployment
Lunch
Launch data analysis

Heart rate vs. steady state acceleration
Fargam Flight
Thanks you for your attention