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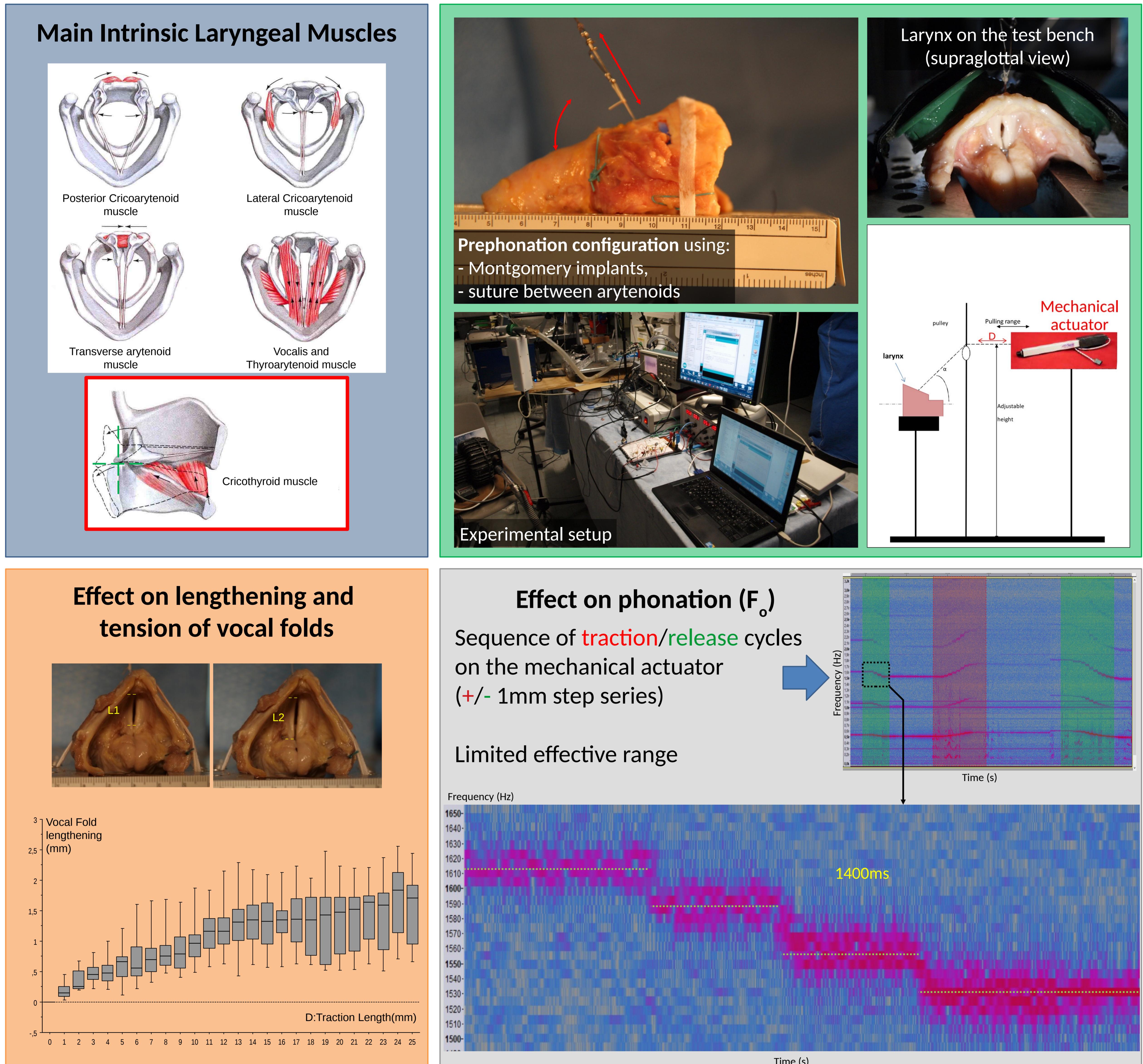
Motorized Cricothyroid Tilt Control on human excised larynx

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Introduction

A **controlled human phonation** needs the coordination of **several extrinsic and intrinsic muscles**.

In order to study the contribution of the **Cricothyroid muscle (CT)**, we implement a **mechanical control of excised human larynx** able to finely reproduce actions of the CT and measure its consequences on phonation.



Discussion

This pilot study **validates the motorized Cricothyroid tilt**, by checking its effects onto:

- the **length of vocal folds**
- The phonatory **fundamental frequency (F_o)**: traction increases F_o , while relaxation decreases F_o .

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