

Research on early signs of dyslexia in children aged 0–2 years

WHAT IS THE STUDY ABOUT?

We investigate **early signs of dyslexia** in infants and toddlers, as well as how **bilingual upbringing** influences their language development. To gain a comprehensive understanding of language acquisition in children at risk for dyslexia, we include babies both with and without a family history of dyslexia, and those raised in monolingual and bilingual environments.



WHY IS IT IMPORTANT?

Studying language development in children at risk of dyslexia helps us identify early indicators of the disorder, which can facilitate **timely diagnosis and intervention**. Additionally, we will learn how growing up in a bilingual environment affects language development in these children. Multilingual upbringing may enhance cognitive abilities and potentially support better language perception.

HOW DOES IT WORK?

The study consists of three consecutive parts. Participation requires attendance in all three parts.

1 Research on native speech sound perception

age: 3.5–7.5M

Your child will sit on your lap inside a soundproof booth and listen to audio recordings. This part assesses the child's ability to recognize sounds of their native language, with responses tracked via eye-tracking technology. The session lasts approximately 10 minutes. A parent will also be asked to complete a brief online dyslexia-risk screening questionnaire.



2 Research on associative learning

age: 16–20M

Your child will watch a screen showing images paired with audio recordings while sitting on your lap. This part examines the child's ability to associate objects with words, with eye movements tracked throughout. This session also lasts about 10 minutes.

3 Communicative development inventory questionnaire

age: 16–23M

Parents complete a questionnaire twice, with a time interval between completions, to track the child's understanding and production of words over time.



Compensation: 1500 CZK total (500 CZK per part), gifts for your baby

HOW TO PARTICIPATE

You can register via the online form at babylab.ff.cuni.cz/prihlasovaci-formular (or scan the QR code), or by emailing kynclova@praha.psu.cas.cz.

