

# CURRICULUM VITAE

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**Date of birth:** 17<sup>th</sup> January 1991

**Citizenship:** Czech

## **EDUCATION:**

2016–2021	Ph.D.	Charles University, 2 <sup>nd</sup> Faculty of Medicine, Prague Human Physiology and Pathophysiology The effect of gluten-free diet on residual beta-cell capacity, gut microbiome and immune function in children with newly diagnosed type 1 diabetes
2010–2016	M.D.	Charles University, 2 <sup>nd</sup> Faculty of Medicine General Medicine

## **PROFESSIONAL EXPERIENCE:**

10/2016 - present	Medical Fellow, Department of Pediatrics, Charles University, 2 <sup>nd</sup> Faculty of Medicine and Motol University Hospital, Prague
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## **SCHOLARSHIPS:**

10-11/2022 & 3-4/2023	Cochin Institute – Immunology of Diabetes Laboratory, Paris, France (2 months)
05/2022	International Society for Pediatric and Adolescent Diabetes Science School for Physicians, Prague, Czech Republic (1 week)
02/2019	European Society for Pediatric Endocrinology Winter School, Baku, Azerbaijan (2 weeks)

09-12/2015

Fakulteit Geneeskunde en Gezondheidswetenschappen,  
Universiteit Gent, Ghent, Belgium, Pediatric and Infectious  
diseases departments, Erasmus+ program (3 months)

### **SOCIETY MEMBERSHIPS:**

- International Society for Pediatric and Adolescent Diabetes (2022 - present), Young Researcher (Jenious) group Ambassador for 2024
- SWEET Registry (Pediatric Diabetes Working to Create Centers of Reference) (2023 - present), Rapporteur responsible for Clinical Upgrade
- Pediatric Society of the Czech Medical Association of J. E. Purkyně (2019 - present), member
- Diabetes Society of the Czech Medical Association of J. E. Purkyně (2018 - present), member

### **GRANTS:**

- **Czech Health Research Council** (2015–2019), co-investigator, theme „*The effect of gluten-free diet on residual beta-cell capacity, immune function and gut microbiome in children with newly diagnosed type 1 diabetes*“ (4 years)
- **Czech Health Research Council** (2021–2025), co-investigator, theme „*Low-carbohydrate diet in type 1 diabetes: Effects on glycemic control and islet autoimmunity*“ (4 years)

### **AWARDS:**

- Albert Schweitzer Prize for Medicine 2021, 1<sup>st</sup> place
- Student jury prize for the best oral presentation, Scientific Conference of the 2<sup>nd</sup> Faculty of Medicine, 2020
- Czech Endocrine Society Prize for best original article of an author below 35 years, 2019, 2020
- Czech Pediatric Society Prize for best original article of an author below 35 years, 2019 and 2020
- Czech Diabetes Society Prize for best original article of an author below 35 years, 2019, 2021 and 2022
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## **PUBLICATIONS:**

- **Neuman V**, Pruhova S, Kulich M, Kolouskova S, Vosahlo J, Romanova M, Petruzelkova L, Havlik J, Mascellani A, Henke S, Sumnik Z, Cinek O. Changes in the gut bacteriome upon gluten-free diet intervention do not mediate beta cell preservation. *Diabetologia*. 2022 Oct 4. **(IF 10.460)**
- **Neuman V**, Cinek O, Funda DP, Hudcovic T, Golias J, Kramna L, Petruzelkova L, Pruhova S, Sumnik Z. Human gut microbiota transferred to germ-free NOD mice modulate the progression towards type 1 diabetes regardless of the pace of beta cell function loss in the donor. *Diabetologia*. 2019 Jul;62(7):1291-1296. **(IF 7.518)**
- **Neuman V**, Plachy L, Drnkova L, Pruhova S, Kolouskova S, Obermannova B, Amaratunga SA, Maratova K, Kulich M, Havlik J, Funda D, Cinek O, Sumnik Z. Low-carbohydrate diet in children and young people with type 1 diabetes: A randomized controlled trial with cross-over design. *Diabetes Res Clin Pract*. 2024 Sep 3; 217:111844. **(IF 6.1)**
- **Neuman V**, Pruhova S, Kulich M, Kolouskova S, Vosahlo J, Romanova M, Petruzelkova L, Obermannova B, Funda DP, Cinek O, Sumnik Z. Gluten-free diet in children with recent-onset type 1 diabetes: A 12-month intervention trial. *Diabetes, Obesity & Metabolism* 2020 May;22(5):866-872. **(IF 5.900)**
- **Neuman V**, Plachy L, Pruhova S, Kolouskova S, Petruzelkova L, Obermannova B, Vyzralkova J, Konecna P, Vosahlo J, Romanova M, Pavlikova M, Sumnik Z. Low-Carbohydrate Diet among Children with Type 1 Diabetes: A Multi-Center Study. *Nutrients*. 2021 Oct 30;13(11):3903. **(IF 5.719)**
- **Neuman V**, Vavra D, Drnkova L, Pruhova S, Plachy L, Kolouskova S, Obermannova B, Amaratunga SA, Konecna P, Vyzralkova J, Venhacova P, Pomahacova R, Paterova P, Stichova L, Skvor J, Kocourkova K, Romanova M, Vosahlo J, Strnadel J, Polockova K, Neumann D, Slavenko M, Sumnik Z. Introduction of continuous glucose monitoring (CGM) is a key factor in decreasing HbA1c in war refugee children with type 1 diabetes. *Diabetes Res Clin Pract*. 2024 Feb **(IF 5.1)**
- **Neuman V**, Piona C, Cudizio L, Drnkova L, Sumnik Z, Slavenko MG, Haller MJ, Maahs DM, Chobot A; ISPAD Jenious Group. Are we ready to screen for type 1 diabetes? A structured worldwide survey among healthcare providers involved in paediatric diabetes care. *Diabet Med*. 2024 Jun **(IF 3.5)**
- **Neuman V**, Plachy L, Pruhova S, Sumnik Z. Dietary components in the pathogenesis and prevention of type 1 diabetes in children. *Horm Res Paediatr*. 2024 Jun 5:1-11 **(IF 3.2)**
- Plachy L, Dusatkova P, Maratova K, Amaratunga SA, Zemkova D, **Neuman V**, Kolouskova S, Obermannova B, Snajderova M, Sumnik Z, Lebl J, Pruhova S. Etiology of combined pituitary hormone deficiency: GNAO1 as a novel candidate gene. *Endocr Connect*. 2024 Aug 29;13(10) **(IF 2.6)**

- Plachy L, **Neuman V**, Velichova K, Slavenko MG, Santova A, Anne Amaratunga S, Obermannova B, Kolouskova S, Pruhova S, Sumnik Z, Petruzelkova L. Telemedicine maintains good glucose control in children with type 1 diabetes but is not time saving for healthcare professionals: KITES randomized study. *Diabetes Res Clin Pract.* 2024 Mar (**IF 5.1**)
- Plachy L, Petruzelkova L, Dusatkova P, Maratova K, Zemkova D, Elblova L, **Neuman V**, Kolouskova S, Obermannova B, Snajderova M, Sumnik Z, Lebl J, Pruhova S. Analysis of children with familial short stature: who should be indicated for genetic testing? *Endocrine Connections.* 2023 Sep 19 (**IF 2.900**)
- Petruzelkova L, **Neuman V**, Plachy L, Kozak M, Obermannova B, Kolouskova S, Pruhova S, Sumnik Z. First Use of Open-Source Automated Insulin Delivery AndroidAPS in Full Closed-Loop Scenario; Pancreas4ALL Randomized Pilot Study. *Diabetes Technol Ther.* 2023 Mar 13 (**IF 7.337**)
- Sumnik Z, Pavlikova M, **Neuman V**, Petruzelkova L, Konecna P, Venhacova P, Skvor J, Pomahacova R, Neumann D, Vosahlo J, Strnadel J, Kocourková K, Obermannova B, Santova A, Plachy L, Pruhova S, Cinek O. Glycemic control by treatment modalities: national registry-based population data in children and adolescents with type 1 diabetes. *Horm Res Paediatr.* 2023 (**IF 4.275**)
- Plachy L, Amaratunga SA, Dusatkova P, Maratova K, **Neuman V**, Petruzelkova L, Zemkova D, Obermannova B, Snajderova M, Kolouskova S, Sumnik Z, Lebl J, Pruhova S. Isolated growth hormone deficiency in children with vertically transmitted short stature: What do the genes tell us? *Front Endocrinol (Lausanne).* 2023 Jan 13 (**IF 6.055**)
- Evin F, Tittel SR, Piccini B, Cardona-Hernandez R, Mul D, Sheanon N, von dem Berge T, Neuman V, Tauschmann M, Gökşen D, Basal and Bolus Insulin Distribution According to Treatment Modality: Data from SWEET Diabetes Registry. *Pediatric Diabetes*, 2023, Aug 9 (**IF 3.4**)
- Petruzelkova L, Jiranova P, Soupal J, Kozak M, Plachy L, **Neuman V**, Pruhova S, Obermannova B, Kolouskova S, Sumnik Z. Pre-school and school-aged children benefit from a switch from a sensor-augmented pump to an AndroidAPS hybrid closed-loop: A retrospective analysis. *Pediatric Diabetes.* 2021 (**IF 4.267**)
- Petruzelkova L, Soupal J, Plasova V, Jiranova P, **Neuman V**, Plachy L, Pruhova S, Sumnik Z, Obermannova B. Excellent Glycemic Control Maintained by Open-Source Hybrid Closed-Loop AndroidAPS During and After Sustained Physical Activity. *Diabetes Technology & Therapeutics* 2018. 20(11), 744-750 (**IF 2.921**)
- Plachy L, Elblova L, **Neuman V**, Fencel F, Blahova K, Stranak Z, Lebl J, Pruhova S. For debate: The significance of etiologic diagnosis in neonates with overgrowth syndromes. Lessons learned from Simpson-Golabi-Behmel syndrome. *Pediatric Endocrinology Reviews.* 2018. 16(1), 171-177 (**IF=0.6**)