

## Základní údaje o školiteli doktorského studia na 3. LF UK

Oborová rada:	Fyziologie a patofyziologie člověka	
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Odborné zaměření: (maxim. 254 znaků)	Klinická péče o pacienty s diabetes mellitus a dalšími endokrinními onemocněními při 2. interní klinice FNKV, klinický a základní výzkum v oblasti metabolismu a jeho ovlivnění hypoxií.	
Výzkumné zaměření: (maxim. 254 znaků)	Výzkum mechanismů vedoucích k rozvoji diabetes mellitus 2. typu s důrazem na metabolismus a endokrinní funkci tukové tkáně. V posledních 5 letech výzkum odpovědi metabolicky aktivních buněk a tkání na setrvalou a intermitentní hypoxii s cílem objasnit mechanismy rozvoje obezity a diabetu.	
Jména doktorandů, kteří ukončili úspěšně studium pod vedením školitele:	Jméno	Rok obhajoby
	Název doktorské práce	
	1. Martin Weissenstein 2016 Obstrukční spánková apnoe jako rizikový faktor rozvoje metabolických onemocnění“	
Témata doktorských prací pro akademický rok 2017/2018:	1. Vliv intermitentní a setrvalé hypoxie na de-novo lipogenezi v tukových buňkách 2. Intermitentní a setrvalá hypoxie jako kauzální faktor rozvoje funkčních a strukturálních poruch kardiomyocytů 3.	
Klinický kontext: (pro uchazeče o kombinovaný klinický výcvik)	Obory chirurgické:	
	Obory vnitřního lékařství:	Diabetologie, endokrinologie
	Obory preventivní:	Tělovýchovné lékařství
	Obory další:	
Kontext programů rozvoje UK (PRVOUK)	<input type="checkbox"/> P02 - Environmentální výzkum <input type="checkbox"/> P27 - Komplexní onkologický program <input type="checkbox"/> P28 - Stomatologická onemocnění, výskyt, mechanismy, prevence, léčba, interakce <input checked="" type="checkbox"/> P31 - Iničiální stadia diabetes mellitus, metabolických a nutričních poruch <input type="checkbox"/> P32 - Poruchy reprodukčního zdraví a zdravého startu do života <input type="checkbox"/> P33 - Komplexní poranění a funkční poruchy páteře, pánve, končetin a synkopicky blízkých orgánů a struktur (morfologie, biomechanika, diagnostika a léčba) <input type="checkbox"/> P34 - Psychoneurofarmakologický výzkum <input type="checkbox"/> P35 - Kardiovaskulární výzkumný program <input type="checkbox"/> P38 - Biologické aspekty zkoumání lidského pohybu <input type="checkbox"/> Další (specifikovat):	
Seznam publikací v časopisech s IF od roku 2008 :		
1. Kovacikova, M; Vitkova, M; Klimcakova, E; <b>Polak, J</b> ; Hejnova, J; Bajzova, M; Kovacova, Z; Viguerie, N; Langin, D; Stich, V: Visfatin expression in subcutaneous adipose tissue of pre-menopausal women: relation to hormones and weight reduction. <i>Eur J Clin Invest</i> , 2008. 38(7):516-22. <b>IF 2.784</b> 2. Pers, TH.; Martin, FP.; Verdich, C.; Holst, C.; Johansen, JV.; Astrup, A.; <b>Polak, J.</b> ; Martinez, JA.; Rezzi, S.; Blaak, E.; Saris, W.; Kochhar, S.; Macdonald, IA.; Sorensen, TIA.; Ramadan, Z: Prediction of fat oxidation capacity using H-1-NMR and LC-MS lipid metabolomic data combined with phenotypic data. <i>Chemometr Intel Lab</i> , 2008. 93(1):34-42. <b>IF 1.940</b> 3. <b>Polak, J</b> ; Kovacova, Z; Holst, C; Verdich, C; Astrup, A; Blaak, E; Patel, K; Oppert, JM; Langin, D; Martinez, JA; Sorensen, TI; Stich, V: Total adiponectin and adiponectin multimeric complexes in relation to weight loss-induced improvements in insulin sensitivity in obese women: the NUGENOB study. <i>Eur J Endocrinol</i> , 2008. 158(4):533-41. <b>IF 3.791</b> 4. <b>Polak, J.</b> ; Bajzova, M.; Stich, V. Effect of exercise on lipolysis in adipose tissue. <i>Future Lipidology</i> , 2008. 3(5):557-572. <b>IF 0.523</b> 5. Capel, F; Klímcáková, E; Viguerie, N; Roussel, B; Vítková, M; Kováčiková, M; <b>Polák, J</b> ; Kováčová, Z; Galitzky, J; Maoret, JJ; Hanáček, J; Pers, TH; Bouloumié, A; Stich, V; Langin, D: Macrophages and		

- adipocytes in human obesity: adipose tissue gene expression and insulin sensitivity during calorie restriction and weight stabilization. *Diabetes*, 2009. 58(7):1558-67. **IF 8.505**
6. de Glisezinski, I; Larrouy, D; Bajzova, M; Koppo, K; **Polak, J**; Berlan, M; Bulow, J; Langin, D; Marques, MA; Crampes, F; Lafontan, M; Stich, V: Adrenaline but not noradrenaline is a determinant of exercise-induced lipid mobilization in human subcutaneous adipose tissue. *J Physiol*, 2009. 587(13):3393-404. **IF 4.764**
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  8. Grau, K; Hansen, T; Holst, C; Astrup, A; Saris, WH; Arner, P; Rössner, S; Macdonald, I; **Polak, J**; Oppert, JM; Langin, D; Martinez, JA; Pedersen, O; Sørensen, TI: Macronutrient-specific effect of FTO rs9939609 in response to a 10-week randomized hypo-energetic diet among obese Europeans. *Int J Obes (Lond)*, 2009. 33(11):1227-34. **IF 4.343**
  9. Kovacova, Z; Vitkova, M; Kovacikova, M; Klimcakova, E; Bajzova, M; Hnevkovska, Z; Rossmeislova, L; Stich, V; Langin, D; **Polak, J**: Secretion of adiponectin multimeric complexes from adipose tissue explants is not modified by very low calorie diet. *Eur J Endocrinol*, 2009. 160(4):585-92. **IF 3.539**
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  14. Koppo, K; Larrouy, D; Marques, MA; Berlan, M; Bajzova, M; **Polak, J**; Van de Voorde, J; Bülow, J; Lafontan, M; Crampes, F; Langin, D; Stich, V; de Glisezinski, I: Lipid mobilization in subcutaneous adipose tissue during exercise in lean and obese humans. Roles of insulin and natriuretic peptides. *Am J Physiol Endocrinol Metab*, 2010. 299(2):E258-65. **IF 4.686**
  15. Haspicova, M; Milek, D; Siklova-Vitkova, M; Wedellova, Z; Hejnova, J; Bajzova, M; Stich, V; **Polak, J**: Post-prandial endothelial dysfunction is ameliorated following weight loss in obese premenopausal women. *Med Sci Monit*, 2011. 17(11):CR634-639. **IF 1.699**
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  17. Kovacova, Z; Tencerova, M; Roussel, B; Wedellova, Z; Rossmeislova, L; Langin, D; **Polak, J**; Stich, V: The impact of obesity on secretion of adiponectin multimeric isoforms differs in visceral and subcutaneous adipose tissue. *Int J Obes (Lond)*, 2011. doi: 10.1038/ijo.2011.223 **IF 5.125**
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- produced adipokines vary during multiple phases of weight-reducing dietary intervention in obese women. *J Clin Endocrinol Metab.* 2012 Jul;97(7):E1176-81 **IF 5.493**
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**Periodika s IF – české a slovenské**

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