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# James Pfaus, Ph.D.

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## Kontakt a konzultační hodiny

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- [konzultační hodiny viz SIS](#)

## Odborné zájmy

### Behavioral Neuroscience and Neuroendocrinology

- Neuroanatomy, neurochemistry, and pharmacology of sexual behavior
- Effects of conditioning on sexual behavior, place and partner preference, and mate choice
- Mechanisms of sexual arousal, desire, pleasure, and inhibition
- Animal models of human sexual response and dysfunction
- Effects of drugs of abuse on sexual function

### Human Sexual Function and Dysfunction

- Sexual desire and cognitive function
- Assessment of sexual incentives
- Subjective and objective tests of sexual arousal, desire, and orgasm
- Effects of stress on sexual function
- Sexual function of sexual minorities
- Paraphilias

## Předměty vyučované ve studijním programu

- Hormones and Behavior (YMPC005)
- Neurobiology of Motivation (YMPC006)

- Sex Differences and Similarities (YMPC008)
- The Nature and Nurture of Sex (YMPC009)

## Vzdělání a pracovní zkušenosti

### Current appointments

- 2021-present - **Department of Psychology and Life Sciences, Faculty of Humanities, Charles University, Prague, Czech Republic** - Visiting Professor, Researcher
- 2022- **National Institute of Mental Health, Klecany, Czech Republic** - Senior Researcher

### Previous academic appointments

- 2019-2021 - **Centro de Investigaciones Cerebrales, Universidad Veracruzana, Xalapa, VER, México** - Visiting Honorary Senior Investigador
- Jan-Aug 2019 - **Département de psychoéducation et de psychologie, Université du Québec en Outaouais, Gatineau, QC, Canada** - Visiting Professeur associé
- 2005-2018 - **Center for Studies in Behavioral Neurobiology (CSBN), Department of Psychology, Concordia University, Montréal, QC, Canada** - Professor (Tenured)
- 1997-2005 - **Center for Studies in Behavioral Neurobiology (CSBN), Department of Psychology, Concordia University, Montréal, QC, Canada** - Associate Professor (Tenured)
- 1992-1997 - **Center for Studies in Behavioral Neurobiology (CSBN), Department of Psychology, Concordia University, Montréal, QC, Canada** - Assistant Professor
- 2013-2018 - **Centre for Clinical Research in Health (CCRH), Department of Psychology, Concordia University, Montréal, QC, Canada** - Associate Member
- 2009-2018 - **Science College, Concordia University, Montréal, QC, Canada** - Fellow
- 2008-2018 - Cross-appointment to the **Department of Health, Kinesiology, and Applied Physiology, Graduate Faculty, Concordia University, Montréal, QC, Canada**
- 1999-2018 - Cross-appointment to the **Department of Chemistry and Biochemistry Graduate Faculty, Concordia University, Montréal, QC, Canada**
- 1997-2018 - Cross-appointment to the **Department of Biology Graduate Faculty, Concordia University, Montréal, QC, Canada**
- 2007-2008 - **Center for Studies in Behavioral Neurobiology (CSBN), Concordia University, Montréal, QC, Canada** - Acting Director
- 1998, 2000, 2004, 2013 - **Instituto de Neuroetologia, Universidad Veracruzana, Xalapa, VER, México** - Visiting Professor
- 1999 - **Department of Psychology, McGill University, Montréal, QC, Canada** - Adjunct Professor (for a day)

### Postdoctoral research

- 1990-1992 - **Laboratory of Neurobiology and Behavior, Rockefeller University, New York, NY, USA** - NIH/ National Public Health Service Postdoctoral Fellowship

### Education

- 1986-1990 - Ph.D. - Psychology/Neuroscience - University of British Columbia, Vancouver, BC, Canada
- 1983-1986 - M.A. - Psychology/Neuroscience - University of British Columbia, Vancouver, BC, Canada
- 1980-1983 - B.A. (Honors) Psychology - American University, Washington, DC, USA
- 1977-1980 - Montgomery College, Rockville, MD, USA

### Laboratory and research employment

- 1981-1983 - **Physiological Neuropharmacology Laboratory, Experimental Therapeutics Branch, NINDS, NIH, Bethesda, MD, USA** - Staff Research Assistant
- 1979-1983 - **Planned Parenthood of Metropolitan Washington, DC, USA** - Staff Laboratory Assistant/Counselor
- 1977-1981 - **Tyler Business Services, Washington, DC, USA** - Graphic Artist

## Nejvýznamnější grantové projekty

- 2019-2024 - Canadian Institutes of Health Research (Project Grant 162264)  
Title: *Preclinical models of sexual arousal, desire, and orgasm disorders in women*
- 2018-2023 - Natural Sciences and Engineering Research Council of Canada  
Title: *Neuroanatomy and neurochemistry of sexual behavior (renewal)*
- 2018-2019 - Canadian Institutes of Health Research (Bridge funding)  
Title: *Preclinical models of sexual arousal, desire, and orgasm disorders in women*
- 2013-2014 - Concordia University Research Fellowship  
Title: *Researcher award for strategic research cluster "The person and society"*
- 2012-2013 - Concordia University Seed Funding Team Program (with Aaron Johnson)  
Title: *A quantitative measure of desire: The sexual Stroop task*
- 2012-2018 - Natural Sciences and Engineering Research Council of Canada (Discovery grant)  
Title: *Neuroanatomy and neurochemistry of sexual behavior (renewal)*
- 2011-2016 - Canadian Institutes of Health Research (Operating grant)  
Title: *Neural and behavioral mechanisms of conditioned sexual excitation and inhibition: Sex differences and similarities*

- 2011-2015 - Fonds de la recherche en santé du Québec (FRQS Group de recherche) (with S. Amir, A. Arvanitogiannis, W. Brake, A. Chapman, N. Chaudhri, S. Chudassama, P. Clarke, R. Courtemanche, M. Leyton, David Mumby, P.-P. Rompré, U. Shalev, P. Shizgal, and B. Woodside)  
Title: *Groupe de recherche en neurobiologie comportementale*
- 2010-2011 - Syracuse University Mind Science Foundation Team Grant (with Stephanie Cacioppo and Francesco Bianchi-Demicheli)  
Title: *Consciousness of sexual desire*
- 2007-2009 - Natural Sciences and Engineering Research Council of Canada (Accelerator supplement)  
Title: *Neuroanatomy and neurochemistry of sexual behavior (renewal)*
- 2007-2012 - Natural Sciences and Engineering Research Council of Canada (Discovery grant)  
Title: *Neuroanatomy and neurochemistry of sexual behavior (renewal)*
- 2007-2011 - Fonds de la recherche en santé du Québec (FRSQ Group de recherche) (with Shimon Amir, Andreas Arvanitogiannis, Wayne Brake, Andrew Chapman, Richard Courtemanche, David Mumby, Uri Shalev, Peter Shizgal, Jane Stewart, and Barbara Woodside)  
Title: *Groupe de recherche en neurobiologie comportementale*
- 2005-2009 - Canadian Institutes of Health Research (Operating grant)  
Title: *Neural and behavioral mechanisms of conditioned sexual response*
- 2002-2007 - Natural Sciences and Engineering Research Council of Canada (Discovery grant)  
Title: *Neuroanatomy and neurochemistry of sexual behavior (renewal)*
- 2002-2004 - Fonds FCAR (NATEQ): Programme Soutien aux équipes de recherche (with Andrew Chapman, Alain Gratton, Pierre-Paul Rompré, Jane Stewart, and Louis-Eric Trudeau)  
Title: *Les bases neurobiologiques des comportements d'appétence*
- 1998-2000 - National Institutes on Drug Abuse, NIH, USA (R21 Exploratory Development Grant)  
Title: *Modification of sexual behavior by drugs of abuse*
- 1998-2001 - Fonds FCAR: Programme Soutien aux équipes de recherche (with Alain Gratton, Pierre-Paul Rompré, Jane Stewart, and Roy Wise)
- 1997-2002 - Natural Sciences and Engineering Research Council of Canada (Research grant)  
Title: *Brain Monoamines and Sexual Behavior (renewal)*
- 1995-1999 - Medical Research Council of Canada (Operating grant)  
Title: *Neural and behavioral consequences of sexual stimulation*
- 1995-1997 - Seagram Fund for Academic Innovation, Concordia University  
Title: *Reciprocal effects of drug addiction on sexual motivation and performance*
- 1995-1998 - Fonds FCAR: Programme Soutien aux équipes de recherche (with Alain Gratton, Pierre-Paul Rompré, Jane Stewart, and Roy Wise)  
Title: *Neurones dopaminergiques et comportement*
- 1994-1997 - Fonds FCAR: Programme Établissement de nouveaux chercheurs (Operating grant)  
Title: *Les syst?mes dopaminergiques cérébraux et le comportement sexuel: interactions avec les hormones stéro?des*
- 1994-1995 - Fonds FCAR: Programme Établissement de nouveaux chercheurs (Equipment grant)  
Title: *Les syst?mes dopaminergiques cérébraux et le comportement sexuel: interactions avec les hormones stéro?des*
- 1994-1997 - Fonds FCAR: Programme Centres de recherche (with Shimon Amir, Zalman Amit, Alain Gratton, Peter Shizgal, Jane Stewart, Roy Wise, and Barbara Woodside)  
Title: *Centre d'études en neurobiologie comportementale*
- 1994-1995 - Natural Sciences and Engineering Research Council of Canada (Equipment grant)  
Title: *Cryostat: Motor-driven cryotome (with Roy Wise)*
- 1993-1997 - Natural Sciences and Engineering Research Council of Canada (Operating grant)  
Title: *Brain Monoamines and Sexual Behaviour*
- 1993-1994 - Natural Sciences and Engineering Research Council of Canada (Equipment grant)  
Title: *Brain Monoamines and Sexual Behaviour*
- 1992-1995 - Concordia University Faculty Research Development Program  
Title: *Neurochemical Correlates of Reproductive Behaviour in the Male and Female Rat: Interactions with Steroid Hormones*
- 1990-1992 - National Institute for Neurological Disorders and Stroke (U.S. Public Health Service National Research Service Award NS08621)  
Title: *Ovarian Hormones and the Synthesis of Opioid Peptides*

## Publikace

**Orcid ID:** 0000-0001-6953-3663

**Scopus ID:** 7004237224

**Web of Science Researcher ID:** AAL-8613-2020

**Google Scholar ID:** JvSfYHAAAAAJ

**H-index:** 60 (Google Scholar), 51 (Scopus), 49 (Web of Science)

### **Posledních 10 publikací:**

- **Pfaus, J.G.**, & Tsarski, K. (2022). A case of female orgasm without genital stimulation. *Sexual Medicine*, in press.
- Coria-Avila, G.A., **Pfaus, J.G.**, Orihuela, A., Domínguez-Oliva, A., José-Pérez, N., Hernández, L.A., & Mota-Rojas, D. (2022). The neurobiology of animal behavior and welfare: basic aspects. *Animals*, in press.
- García-Juárez, M., Luna-Hernández, A., Tapia-Hernández, S., Montes-Narvaez, O., Domínguez-Ordoñez, R., **Pfaus, J.G.**, & González-Flores, O. (2022). Apelin-13 facilitates lordosis behavior following infusions to the ventromedial hypothalamus or preoptic area in ovariectomized, estrogen-primed rats. *Neuroscience Letters*, in press.
- Graham, M.D., Payne, J.W., Germé, K., & **Pfaus, J.G.** (2022). Steroid hormones modulate dopamine receptor subtypes on glutamate and GABA projections from the medial preoptic area to the ventromedial hypothalamus and ventral tegmental area of female rats: A triple-labelling study. *European Journal of Neuroscience*, in press.
- **Pfaus, J.G.** (2021). Neuroelectrical activity and sexual stimulation: Deconstructing a Tower of Babel. *Archives of Sexual Behavior*, in press.
- **Pfaus, J.G.** (2021). TRPC2: A pheromonal funnel into same sex sexual behavior. *Archives of Sexual Behavior*, 50, 2299-2300.
- **Pfaus, J.G.**, Sadiq, A., Spana, C., Clayton, A.H. (2021). The neurobiology of bremelanotide for the treatment of hypoactive sexual desire disorder in premenopausal women. *CNS Spectrums*, 18, 1-29.
- Androvičová, R., **Pfaus, J.G.**, & Ovsepian, S.V. Estrogen pendulum in schizophrenia and Alzheimer's disease: Review of therapeutic benefits and outstanding questions. *Neuroscience Letters*, 759, 136038.
- Domínguez-Ordoñez, R., García-Juárez, M., Tapia-Hernández, S., Luna Hernández, A., Galindo Madrid, M.E., Tecamachaltzi-Silvarán, M.B., **Pfaus, J.G.**, & González-Flores, O. (2021). Oxytocin induces lordosis behavior in female rats through the prostaglandin E2/GnRH signaling system. *Hormones and Behavior*, 136, 105081.
- García-Juárez, M., Lima-Hernández, F.J., **Pfaus, J.G.**, & González-Flores, O. (2021). Tibolone induces lordosis behavior, but not concurrent or sequential inhibition, in Sprague Dawley rats. *Neuroscience Letters*, 755, 135916.

[Kompletní seznam publikací](#)

[Kompletní seznam prezentací](#)