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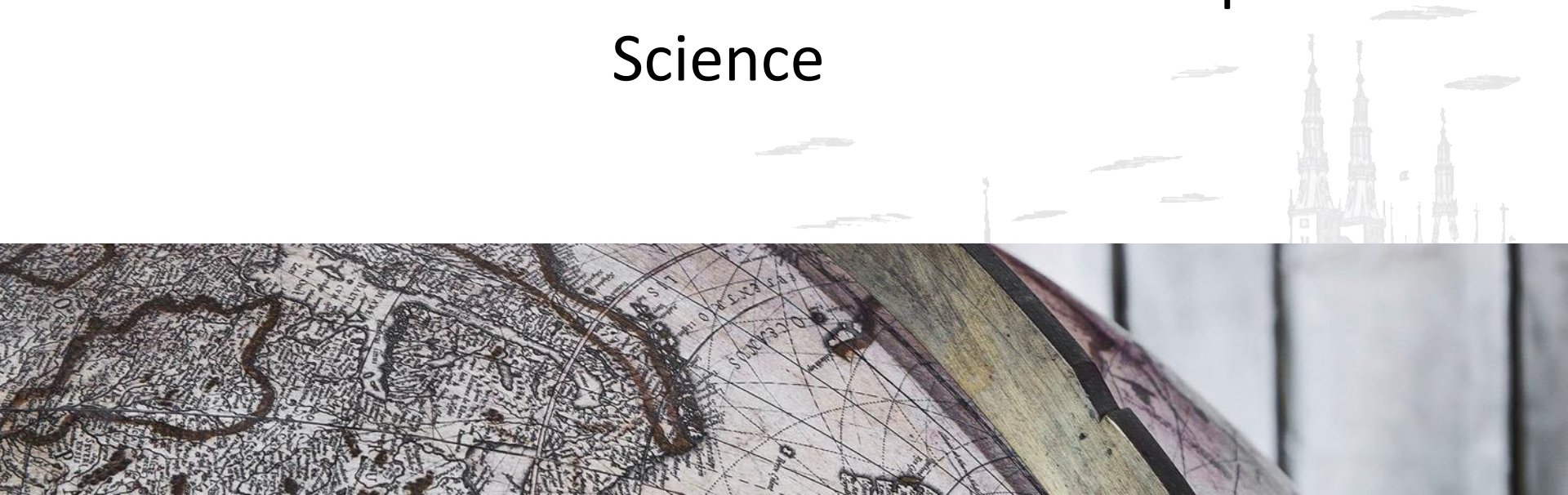
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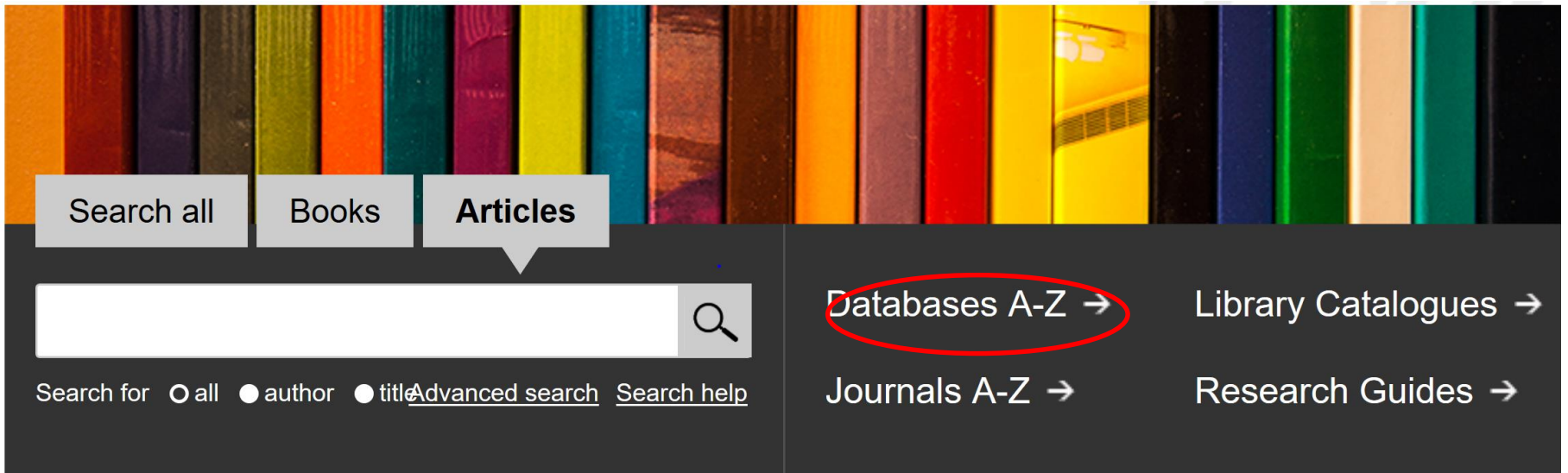
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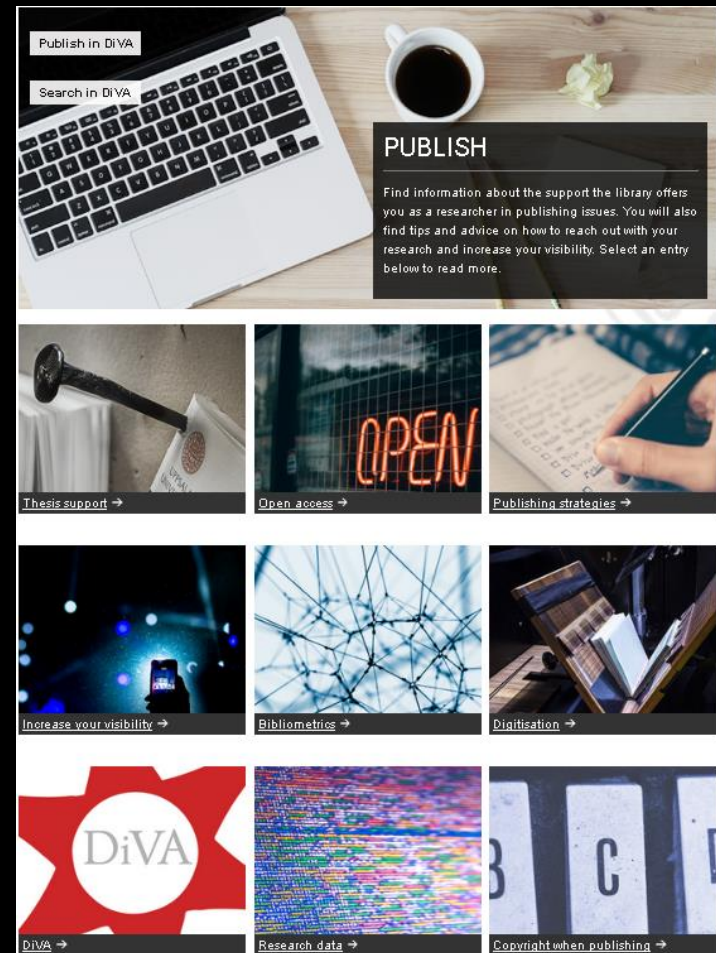


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Objectives and strategies for world-leading research

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Strategies

- The breadth and diversity of research will be maintained and developed.
- The allocation of research funding between and within scientific disciplines and faculties will be based on evaluations of quality and productivity.
- New and strategically important areas of research will be given special support for rapid establishment.
- The application of sound research practices and ethical research principles is an absolute prerequisite and will be secured through continual educational and informational efforts.
- Dynamic research environments with shared infrastructure will be fostered to support excellent research and facilitate innovative cooperation.
- Cross-disciplinary research cooperation within the University and with external partners will be supported and structural barriers to cooperation will be removed.
- All research will be thoroughly scrutinized in order to strengthen quality and add new aspects. Research results will be published via the most prominent channels in the respective subject areas.
- Research results will be made available in open access channels, wherever possible.
- Cooperation with national and international research funding agencies and organisations will be reinforced and academic staff will be encouraged to take on duties in such organisations.
- External research funding will be increased by giving organisational support for the design of broad and cross-disciplinary research initiatives.

from [Uppsala University's Mission and Core Values](#))

Research results will be made available in open access channels, wherever possible.

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Increased interdisciplinary conversation

Meet the funding agencies' demands

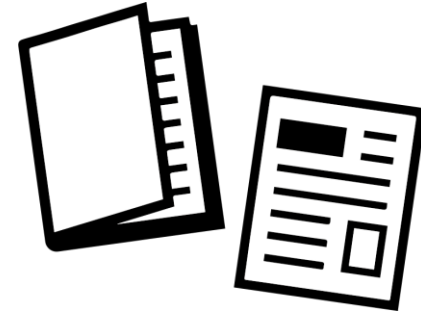


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Oscillatory control of insulin secretion

- Tengholm, Anders
Uppsala University, Disciplinary Domain of Medicine and Pharmacy, Faculty of Medicine, Department of Medical Cell Biology.
- Gylfe, Erik
Uppsala University, Disciplinary Domain of Medicine and Pharmacy, Faculty of Medicine, Department of Medical Cell Biology.

2009 (English)
In: Molecular and Cellular Endocrinology, ISSN 0303-7207, E-ISSN 1872-8057, Vol. 297, no 1-2, 58-72

Article, review/survey (Refereed) Published

Abstract [en]

Pancreatic β -cells possess an inherent ability to generate oscillatory signals that trigger insulin release. Coordination of the secretory activity among β -cells results in pulsatile insulin secretion from the pancreas, which is considered important for the action of the hormone in the target tissues. This review focuses on the mechanisms underlying oscillatory control of insulin secretion at the level of the individual β -cell. Recent studies have demonstrated that oscillations of the cytoplasmic Ca^{2+} concentration are synchronized with oscillations in β -cell metabolism, intracellular cAMP concentration, phospholipase C activity and plasma membrane phosphoinositide lipid concentrations. There are complex interdependencies between the different messengers and signalling pathways that contribute to amplitude regulation and shaping of the insulin secretory response to nutrient stimuli and neurohormonal modulators. Several of these pathways may be important pharmacological targets for improving pulsatile insulin secretion in type 2 diabetes.

Keyword [en]
Insulin secretion, oscillations, metabolism, Ca^{2+} , cAMP, phospholipase C, PIP2, PIP3

National Category
Cell and Molecular Biology Physiology Endocrinology and Diabetes

Research subject
Medical Cell Biology

Identifiers
URN: urn:nbn:se:uu:diva-87096
DOI: 10.1016/j.mce.2008.07.009

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Citation for the original published paper (version of record):
Tengholm, A., Gylfe, E. (2009). Oscillatory control of insulin secretion. *Molecular and Cellular Endocrinology*, 297(1-2), 58-72. <http://dx.doi.org/10.1016/j.mce.2008.07.009>

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Oscillatory control of insulin secretion

Anders Tengholm · Erik Gylfe
Department of Medical Cell Biology, Uppsala University, BMC Box 572, S-751 23 Uppsala, Sweden

ARTICLE INFO

ABSTRACT

Pancreatic β -cells possess an inherent ability to generate oscillatory signals that trigger insulin release. Coordination of the secretory activity among β -cells results in pulsatile insulin secretion from the pancreas, which is considered important for the action of the hormone in the target tissues. This review focuses on the mechanisms underlying oscillatory control of insulin secretion at the level of the individual β -cell. Recent studies have demonstrated that oscillations of the cytoplasmic Ca^{2+} concentration are synchronized with oscillations in β -cell metabolism, intracellular cAMP concentration, phospholipase C activity and plasma membrane phosphoinositide lipid concentrations. There are complex interdependencies between the different messengers and signalling pathways that contribute to amplitude regulation and shaping of the insulin secretory response to nutrient stimuli and neurohormonal modulators. Several of these pathways may be important pharmacological targets for improving pulsatile insulin secretion in type 2 diabetes.

1. Pancreatic insulin secretion

Insulin secretion is the only blood glucose-lowering hormone that is secreted in a pulsatile manner. The secretory activity of the β -cells is controlled by glucose homeostasis and disturbances are associated with chronic hyperglycaemia and diabetes. Glucose is the major stimulus for insulin release, but other hormones and autonomic control factors also contribute to the regulation of insulin secretion. The secretory activity of the β -cells is characterized by a pulsatile pattern of insulin release, which is considered important for the action of the hormone in the target tissues. This review focuses on the mechanisms underlying oscillatory control of insulin secretion at the level of the individual β -cell. Recent studies have demonstrated that oscillations of the cytoplasmic Ca^{2+} concentration are synchronized with oscillations in β -cell metabolism, intracellular cAMP concentration, phospholipase C activity and plasma membrane phosphoinositide lipid concentrations. There are complex interdependencies between the different messengers and signalling pathways that contribute to amplitude regulation and shaping of the insulin secretory response to nutrient stimuli and neurohormonal modulators. Several of these pathways may be important pharmacological targets for improving pulsatile insulin secretion in type 2 diabetes.



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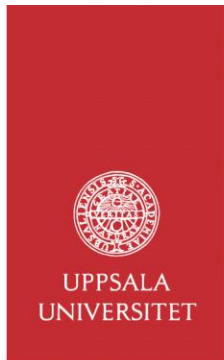
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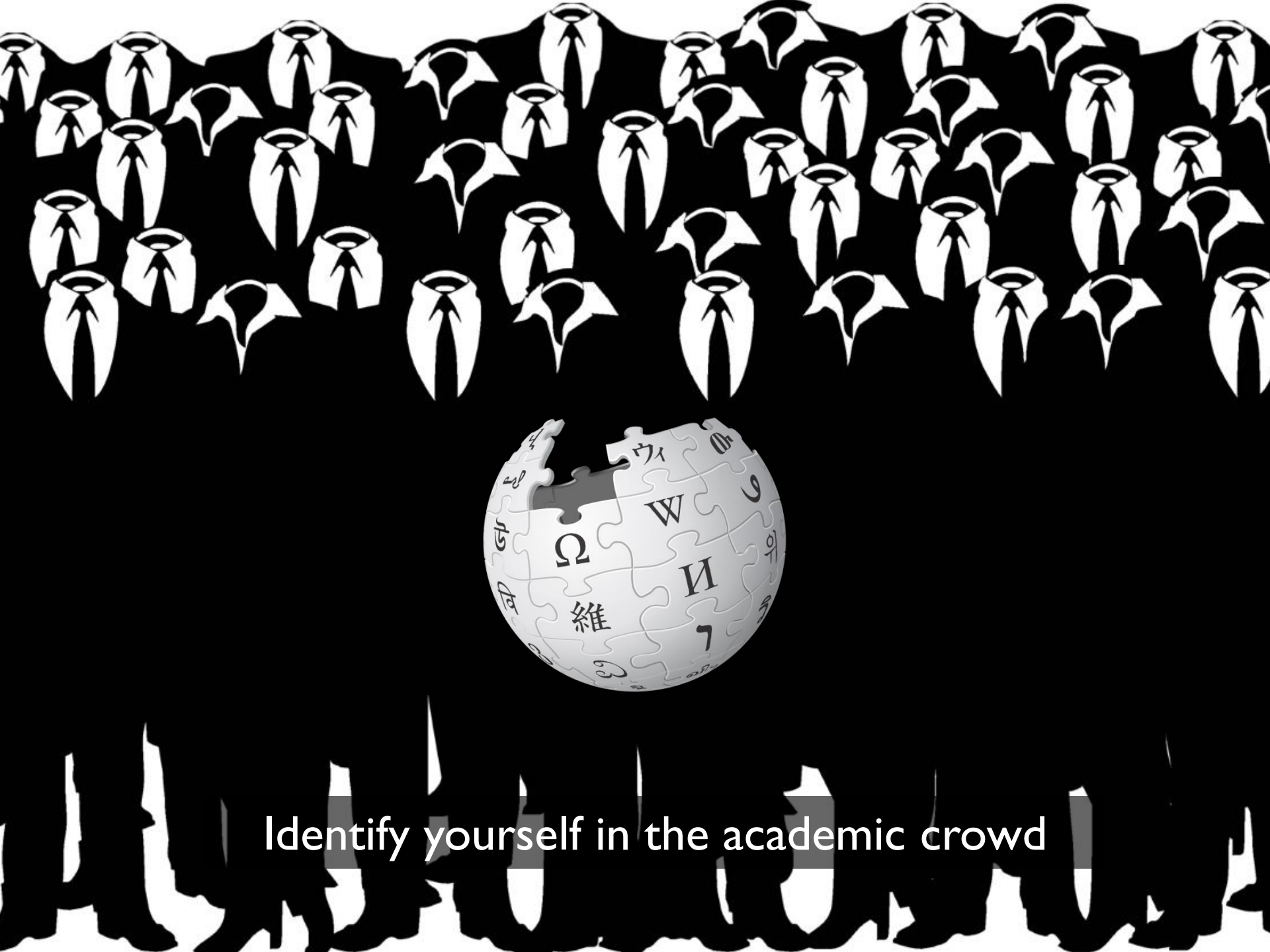


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Användare:Olle Terenius (UU)

This user is affiliated with *Uppsala University* in Sweden.

About me

I coordinate the collaboration between Uppsala University and Al-Baha university in Saudi Arabia.

I also coordinate the bilateral collaboration between Sida (International Development Cooperation Agency) and AHRI (Armauer Hansen Research Institute) in Addis Abeba, Ethiopia.

Research area

Malaria mosquitoes with particular focus on bacteria associated with mosquitoes.

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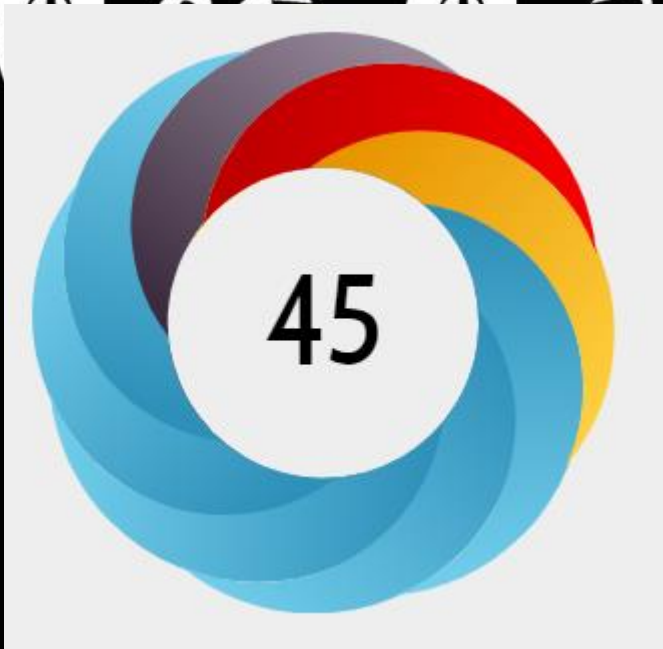
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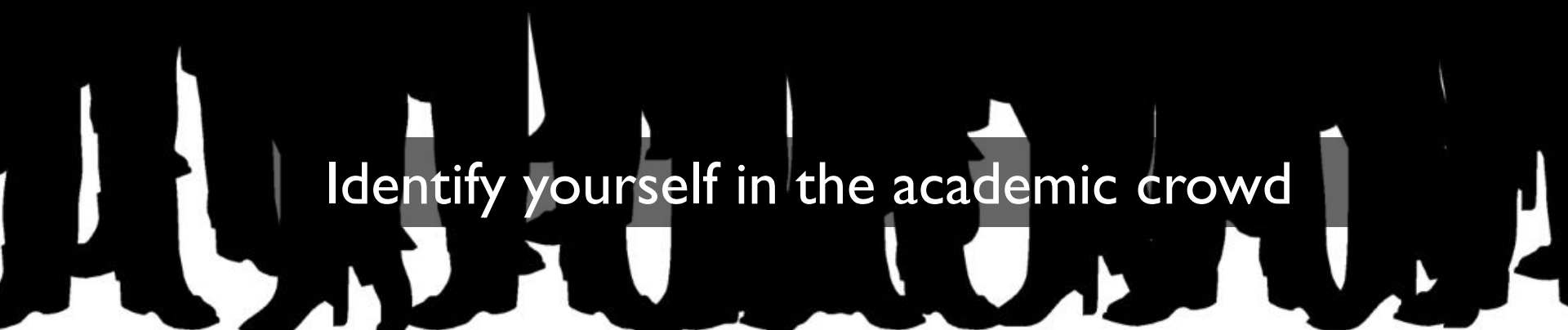


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