#### Koper, SL, 19.5.2017

## Spirituality and Self-Knowledge of Psychedelic Drug Users

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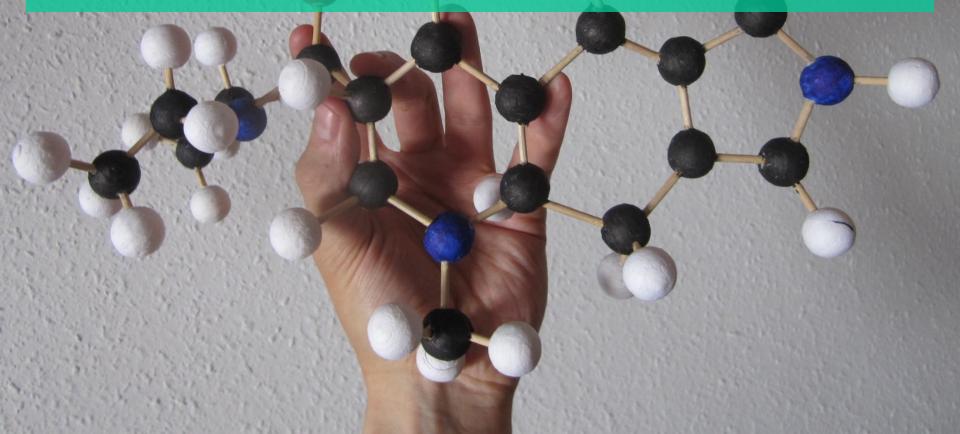
## **My Areas of Interest**

**Cognitive Neuroscience Consciousness Research Altered States of Consciousness** Dreaming, Hypnosis, Meditation, ... Hallucinations **Psychoactive Drugs** Stimulants, Depressants, ... Hallucinogens **Dissociatives**, **Deliriants**, ... **Psychedelics** Entheogens LSD, psilocybin, mescaline, DMT, LSA, ... salvinorin-A (Salvia divinorum)

## Contents

I. Psychoactive Drugs (preliminary data) Drug use purposes II. Psychedelics (practical study) Influence on life quality and spirituality III. Psychedelics (theoretical study) Drug instrumentalization & categorization IV. Bio-psycho-socio-spiritual framework Theories, models, and human needs

#### I. Psychoactive Drugs



## **Psychoactive Drug Use**

- complex phenomenon: many drugs & use patterns
- social discourses mostly disregard voices of users
- attention targeted at problematic drug use
- large percentage of drug users are non-problematic
- non-problematic drug use is understudied
- Let's study drug use purposes!

## **Study Overview**

- online questionnaire
- recruited with snowball method from multiple sources
- purposive sampling in target group: Hungarian Psychedelic Community (www.daath.hu)
- 667 adequately completed web forms
- exclusion criteria: problematic drug use
- 589 non-problematic users
- 3 psychological instruments: coping (PICI), purpose in life (PIL), spirituality (ISS)

#### **Drug Types with Categorization**

Depressants			Alcohol		
			Inhalants		
			Sleep medication, tranquilizers, anxiolytics		
			(without a diagnosis or prescription)		
			Medical drugs and alcohol combined		
		B	Heroin and other opiates		
			GHB, GBL		
	1 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Tobacco		
Stimulants			Ecstasy (MDMA)		
			Amphetamine and other stimulants		
			Cocaine		
	Deliriants		Jimson weed, angel's trumpet, henbane etc.		
- ANDE			Ketamine		
	Dissociatives	11-10-15	Nitrous oxide (N <sub>2</sub> O)		
AN CONTER	SUUL STREEMO		PCP		
24. 72/059	ASSA THEN	Minor	Marijuana, hashish		
Band Ass.			New synthetic drugs (2C-B, 5-MeO-DMT etc.)		
Hallucinogens			Ibogaine		
	STREET, OL	2 Martin	LSD		
	<b>Psychedelics</b>	elem 2	Psilocybe mushrooms		
		PP/ASS	Mescaline cacti		
		Major	Salvia divinorum		
			DMT (ayahuasca, yopo etc.)		
11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			LSA (morning glory, HBWR etc.)		
(fictional drug)	MAN AND CO	(0100VA	Relevin		

## **Drug Use Purposes**

RELSPI **S-KNOW** S-MEDI MOOD BORED DEFIC SOCIAL SENS ART PHYS REBEL **IDENT** MEMBER **CURIO** 

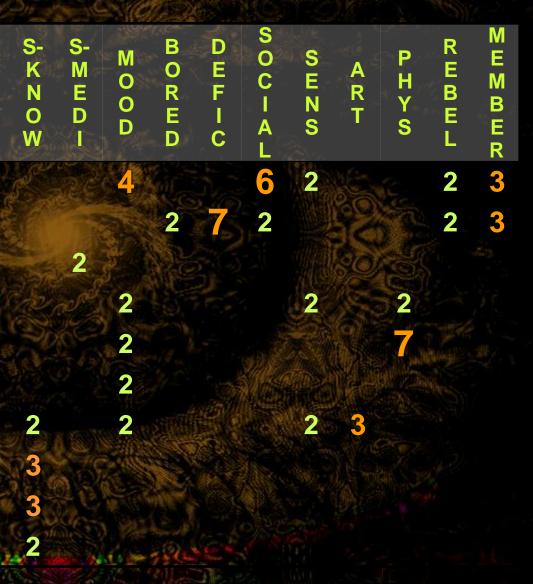
**Religious or spiritual practices** Self-knowledge and self-inspection **Self-medication** Enhancing mood Avoiding boredom and hopelessness Offsetting a deficiency Increasing social contact Increasing sensation and pleasure Stimulating artistic creativity/performance Enhancing physical power **Rebellion or alternative lifestyle** Building personal identity and drawing attention Expressing membership in a group Out of curiosity

## **Drugs x Purposes**

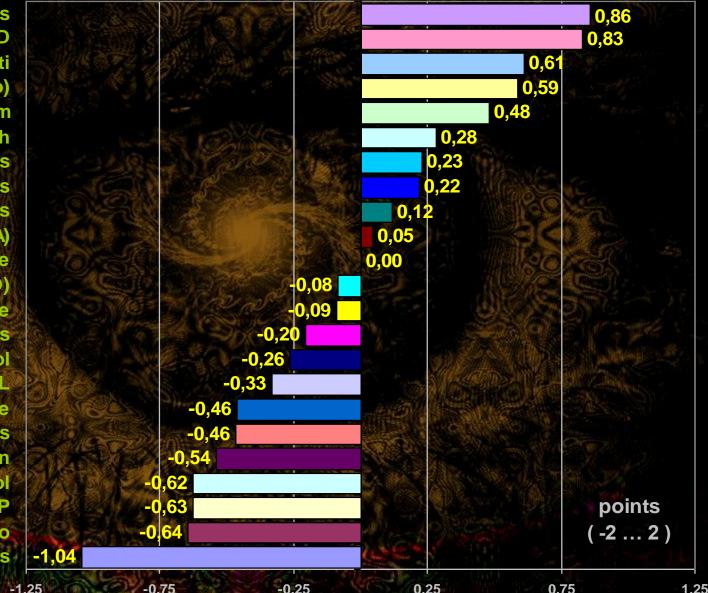
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Alcohol Tobacco **Depressant medication Ecstasy (MDMA)** Amphetamine, stimulants Nitrous oxide (N<sub>2</sub>O) Marijuana, hashish LSD **Psilocybe mushrooms** Salvia divinorum



## **Drug Influence on Life Quality**



**Psilocybe mushrooms** LSD **Mescaline cacti** DMT (ayahuasca, yopo) Salvia divinorum Marijuana, hashish **New synthetic drugs** LSA + containing plants Heroin and other opiates **Ecstasy (MDMA)** Ibogaine Nitrous oxide (N2O) Cocaine Amphetamine, stimulants Alcohol GHB, GBL **Ketamine Deliriant plants Depressant medication** Medical drugs + alcohol PCP Tobacco Inhalants -1,04

# II. Psychedelics (practical)

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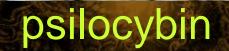
## **Study Goals**

- To study psychopharmacological self-enhancement by assessing a non-problematic drug user group
- Comparing:
  - 1) autognostic use of psychedelic drugs ("PSY")
    - 2) other uses of other drugs ("C1")
    - 3) no drug use ("C2")
- Initial work hypothesis:
  - Differences in life meaningfulness and coping characteristics
  - Autognostic psychedelic drug use associated with
    - enhancements of life quality
    - a higher level of spirituality

## **Major Psychedelics**



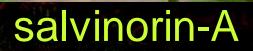
LSD



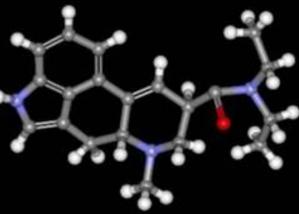
#### mescaline







## **Major Psychedelics**



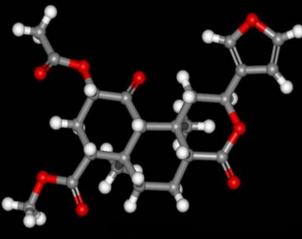




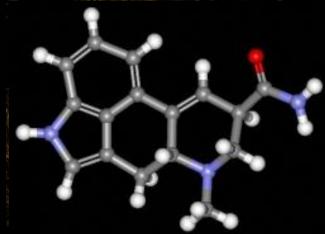
#### mescaline



LSD



LSA



DMT

salvinorin-A

## Methods

- online questionnaire
- informed consent
- socio-demographics
- questions about drug use

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3 psychological instruments:
- coping (PICI)
- meaningfulness of life (PIL)
- spirituality (ISS)

#### www.psyd.hu

#### Psychological Immune Competence Inventory (PICI)

- assesses personality factors behind an individual's resource capacities for long-term coping with stress
- 80 items, developed by Oláh (2005)

#### Purpose in Life Test (PIL)

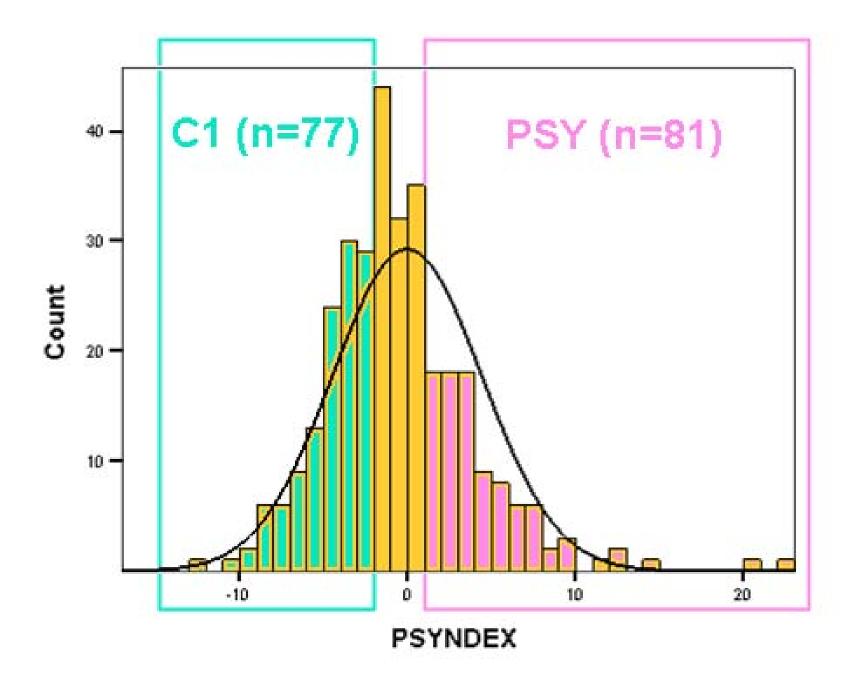
measures a protective factor that meaningfulness of life has on mental health (based on the concepts of Frankl)
20 items, developed by Crumbaugh and Maholick (1964)

#### Intrinsic Spirituality Scale (ISS)

measures the guiding capabilities of spirituality in a person's life (based on the Religious Orientation Scale) 6 items, developed by Hodge (2003)

## PSYNDEX score ("psychedelic index")

calculated for 277 non-problematic drug users drug use parameters: (1) <u>number</u> of psychedelic drugs (2) autognostic drug use purposes (3) importance and effects of the experience obtained distribution range (-12 to 23) separated into roughly equally sized groups: high-scoring (PSYNDEX > 1) -> target group ("PSY") - low-scoring (PSYNDEX < -2) -> control group ("C1")



#### Results

- PSY group substance use less problematic than C1
- PSYNDEX PICI: weak correlation (r = .137,
- p < .009) only if problematic drug users included
- PSYNDEX ISS: correlation (r = .339, p < .001)</li>
- ISS in matched groups: PSY > C1, C2
- # of psychedelic drugs: positive correlation with ISS

## **Discussion 1/2**

- Great variability and marked differences in the usage patterns of psychoactive drugs that cannot be approached by oversimplified or problem-oriented generalizations
- Exclusion of problem users: evens out subtle differences

-> Focusing on problem users: likewise biases results

- Religious/spiritual attitude may keep away from drug use, especially if abstinence is valued/required by the community
- ...But: sacramental drug use may also be in accordance with religious or spiritual goals
- Spirituality may act as a protective factor against drugrelated problems for both drug users and non-users

## **Discussion 2/2**

- Meaning of *spirituality* is ambiguous
- Autognostic drug use as a "training situation":
  - deliberately provoked exceptional experiences
  - in order to gain self-knowledge
  - to rehearse coping strategies
- Actual efficiency and benefits still speculative

Next study: qualitative interviews with target group

## Summary

Drug use and its purposes were studied in 667 drug users and non-users with an online questionnaire Focus on autognostic use of psychedelic drugs Participants matched and grouped into PSY, C1, C2 Coping, life quality and spirituality were assessed with psychological instruments PICI, PIL and ISS No differences found in coping and life quality between non-problematic drug users and non-users Psychedelic drugs less associated with problems Autognostic psychedelic users had higher spirituality

#### Móró, Simon, Bárd, & Rácz (2011)

Journal of Psychoactive Drugs, 43 (3), 188–198, 2011 Copyright © Taylor & Francis Group, LLC ISSN: 0279-1072 print/2159-9777 online DOI: 10.1080/02791072.2011.605661



#### Voice of the Psychonauts: Coping, Life Purpose, and Spirituality in Psychedelic Drug Users

Levente Móró, M.Sc.ª; Katalin Simon, M.Sc.b; Imre Bárd, M.Sc.c & József Rácz, Ph.D.d

Abstract — Psychoactive drug use shows great diversity, but due to a disproportionate focus on problematic drug use, predominant nonproblematic drug use remains an understudied phenomenon. Historic and anecdotal evidence shows that natural sources of "psychedelic" drugs (e.g., mescaline and psilocybin) have been used in religious and spiritual settings for centuries, as well as for psychological self-enhancement purposes. Our study assessed a total of 667 psychedelic drug users, other drug users, and drug nonusers by online questionnaires. Coping, life purpose, and spirituality were measured with the Psychological Immune Competence Inventory, the Purpose in Life test, and the tability of spirituality. Such a great the Beardie and the tab we have an ended the drug with a drug users.

#### Journal of Psychoactive Drugs, 43(3), 188-198.

#### III. Psychedelics (theoretical)

Móró, L., & Noreika, V. (2011). Sacramental a hallucinogenic drugs. Behavioral and Brain Science

#### Journal: Behavioral and Brain Sciences (2011 Impact Factor: 25.056)

#### **Innovative format:**

(1) Target Article (2) Open Peer Commentary (3) Authors' Response (1) – Target Article: Müller & Schumann (2011) Drugs as instruments – A new framework for nonaddictive psychoactive drug use

Behavioral and Brain Sciences, 34(6), 293–310.

Abstract: Most people who are regular consumers of psychoactive drugs are not drug addicts, nor will they ever become addicts. In neurobiological theories, non-addictive drug consumption is acknowledged only as a "necessary" prerequisite for addiction, but not as a stable and widespread behavior in its own right. This target article proposes a new neurobiological framework theory for non-addictive psychoactive drug consumption, introducing the concept of "drug instrumentalization". [...]

Proximate mechanisms of psychoactive drug use

(by Müller & Schumann)

- 1. Improved social interaction.
- 2. Facilitated sexual behavior.
- 3. Improved cognitive performance and counteracting fatigue.
- 4. Facilitated recovery from and coping with psychological stress.
- 5. Self-medication for mental problems.
- Sensory curiosity Expanded perception horizon.
   Euphoria, hedonia, and high.
- 8. Improved physical appearance and attractiveness.

#### 6. Sensory curiosity – Expanded perception horizon. (by Müller & Schumann)

"[...] Drugs that humans consume primarily for their sensory perception changing properties, such as hallucinogens"

mescaline, psilocybin, LSD
phencyclidine, ketamine, GHB
cannabis

"[...] coincident activation of previously unrelated representations that are then interlinked"

(2) – Open Peer Commentary: Móró & Noreika (2011) Sacramental and spiritual use of hallucinogenic drugs

Behavioral and Brain Sciences, 34(6), 319–320.

Abstract: Arguably, the religious use of hallucinogenic drugs stems from a human search of metaphysical insight, rather than from a direct need for cognitive, emotional, social, physical, or sexual improvement. Therefore, the sacramental and spiritual intake of hallucinogenic drugs goes so much beyond other biopsychosocial functions that it deserves its own category in the drug instrumentalization list.

**Sacramental and spiritual use** of hallucinogenic drugs (by Móró & Noreika) Induces unique kinds of subjective experiences with a rich phenomenology Results in increased apperception, dissolution of ego boundaries, feelings of unity and insight, presence of or encounters with nonhuman entities or beings Appears as independent from one's own mind

Motivated by gaining metaphysical insight Originates from a "higher" need for mystical

experiences

Supported by vast amount of archeological evidence and historical documentation

#### <u>(3) – Authors' Response:</u> **Müller & Schumann (2011)** To use or not to use: Expanding the view on non-addictive

psychoactive drug consumption and its implications

Behavioral and Brain Sciences, 34(6), 328–347.

"Móró & Noreika argued that in particular sacramental and spiritual drug intake, which is famously associated with psychedelic drugs, may go far beyond a simple expansion of the perception horizon. We fully agree with this suggestion and <u>add</u> <u>this as ninth instrumentalization goal to the list</u> as: *Facilitating spiritual and religious activities.*"

#### IV. Bio-Psycho-Socio-Spiritual framework

ne Union of Human and Divine Consciousness Weaving the Fabric of Space and Time in which the Self and its Surroundings are Embedded n linen, 180 x 60 in.

## **Theories and Models**

Maslow(1943) Theory of human motivationAntonovsky (1961) Salutogenesis modelFrankl(1963) Search for ultimate meaningEngel(1977) Biopsychosocial model of healthBishop(2009) Biopsychosociospiritual medicine

## **Human Needs**

Maslow (1943) A Theory of Human Motivation. Psychological Review 50, 370–396.

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Self-transcendence Self-actualization Aesthetic Cognitive Esteem Love Safety Physiological

#### **Spiritual**

Socio

Psycho

Bio

## Why Psychedelics?

## **Spiritual**

#### Socio

Psycho

Bio

**Mystical** experiences Entheogenic churches Creativity **Psycho-Altered** therapy states Addiction Cluster therapy headaches 

Selftranscendence

Noesis

Consciousness research

Autognosis

Selfmedication

## Summary

**Psychedelics**:

used for autognostic purposes
has positive effect on life quality
associated with a higher level of spirituality
facilitate spiritual and religious activities
do higher functions in a multi-level framework

...are the most extraordinary!

## JPS JOURNAL OF PSYCHEDELIC STUDIES

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We are delighted to announce the launch of our new journal, Journal of Psychedelic Studies, dedicated exclusively to the topic of psychedelics. Editorial Board members have been chosen for their expertise in key areas related to the journal.

The journal seeks to provide an interdisciplinary forum for the exchange of information about psychedelic substances and the biological, neurochemical and psychological changes they facilitate, as well as their social implications.

The broad scope of the journal includes different approaches to the pharmacological modification of consciousness, as well as research reports on psychedelic experiences; it also examines the therapeutic potential of these substances, as well as their cultural implications. The journal accepts case reports, case series, original research, meta-analyses, reviews of the literature, and book reviews of topics ranging from psychopharmacology, neurobiology and psychology to philosophy, sociology and anthropology. The journal's philosophy is grounded in biology and psychology, but it is also open to considerations of spirituality and religion.

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