

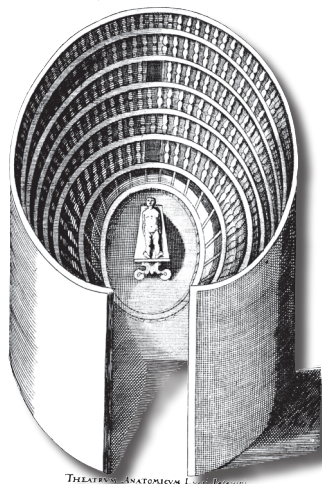
University of Padua



University of Bologna

UNDER THE AUSPICES OF

SIO Italian Society of Obesity
SIE Italian Society of Endocrinology
SID Italian Society of Diabetes
SIC Italian Society of Cardiology
SIMI Italian Society of Internal Medicine
SISA Italian Society for the Study of
Atherosclerosis



International Workshop on **ENDOCANNABINOIDS IN ENDOCRINOLOGY, METABOLISM AND CARDIOVASCULAR DISEASES**

Scientific background and
clinical perspectives

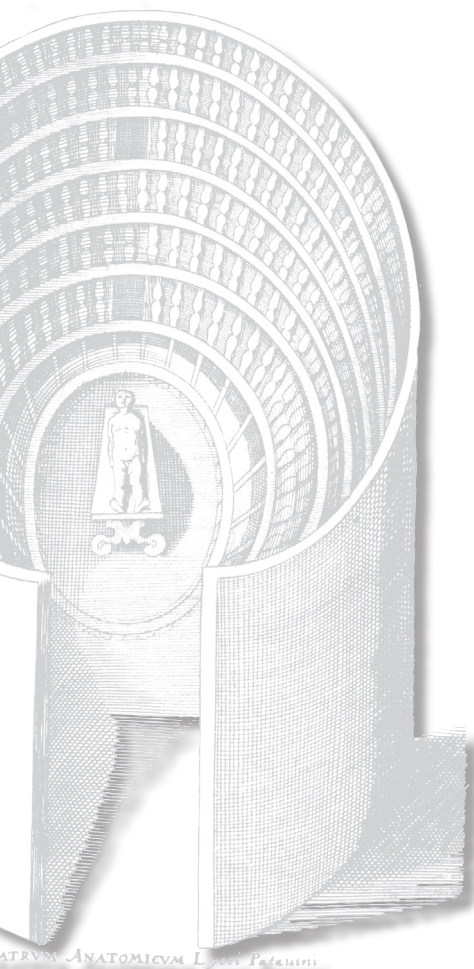
Padua (Italy), July 5TH-7TH, 2007

**Aula Magna "Galileo Galilei"
Palazzo del Bo'
University of Padua**

P R O G R A M M E

www.keycongress.com

www.sio-triveneto.it/endocannabinoids.html



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Dear Colleagues,

We are pleased to welcome you to Padua for the International workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular Diseases”.

The workshop is organized by the Universities of Bologna and Padua which established the first example of *Gymnasium Omnium Disciplinarum* - an educational model that can now be seen all over the world.

Padua University was founded in 1222, when a number of professors and students left the University of Bologna in search of greater “academic freedom”.

The origin of students and teachers - together with the similarities in their Statutes - reveal that Padua placed a certain importance on this link with Bologna, the oldest university in the world.

The research on endogenous cannabinoids of the last 15 years has opened promising scenarios for the therapeutic use of drugs modulating endocannabinoid-related mechanisms in many disorders.

The meeting will focus on the multiple physiological functions of the endocannabinoid system that are just beginning to be fully appreciated.

The workshop brings together scientists to present and discuss the most recent cutting-edge findings related to the role of endogenous cannabinoids in the regulation of energy metabolism, their influence on endocrine axes and on cardiovascular function and disorders.

The endocannabinoid system plays a major role in controlling energy balance, possibly targeting the central mechanism and a variety of peripheral organs.

The endocannabinoid system is also involved in immune control, neuroprotection, regulation of blood pressure and cardiac function, dependence on alcohol, and liver lipid metabolism. Each of these functions may be a target with potential therapeutic implications. In addition, recent pharmacological advances point out that our understanding of this system is far from being complete. Updating our knowledge will pave the way to designing innovative molecules for targeting major disease.

We have done our best to offer high quality lectures and research reports ranging from basic sciences to clinical and patient-oriented research. The stimulating environment of one of the world’s most ancient Universities will generate fruitful discussions between established leaders in this field and young scientists.

By coming to the International Workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular Diseases” in Padua you will enjoy not only the qualified scientific programme, but also the numerous attractions that Padua offers in a stimulating environment that combines art and science, modernity and tradition.

A warm welcome in Padua.

Roberto Vettor

Renato Pasquali

12:30 Registration

13:00 Lunch

14:00 WELCOME ADDRESS

Chairman:

R. Vettor - Italy

OPENING LECTURE

Present and future of research
on endocannabinoids

R. Mechoulam -Israel

**ENDOCANNABINOIDS: FROM
STRUCTURE TO FUNCTION**

Chairmen:

M. Carruba - Italy

G. Enzi - Italy

Discussant:

A. Catapano - Italy

14:45 Endogenous cannabinoids:
structure and metabolism

T. Bisogno - Italy

15:25 The cannabinoid receptors

K. Mackie - USA

16:05 New cannabinoid compounds

A. Leon - Italy

16:45 Coffe Break

**ENDOCANNABINOIDS IN
ENDOCRINOLOGY (I)**

Chaimen:

F. Mantero - Italy

A. Colao - Italy

Discussants:

G. Forti - Italy

M. Maggi - Italy

17:00 Central and peripheral
regulation of the
endocannabinoid system within
the framework of energy
metabolism

V. Di Marzo -Italy

17:40 Endocannabinoids, hormone-
cytokine networks and human
fertility

M. Maccarrone - Italy

18:20 Endocannabinoids and male
reproductive function

M. Rossato - Italy

19:00 Closing remarks

ENDOCANNABINOIDS IN ENDOCRINOLOGY (II)

Chairmen:

R. Pasquali - Italy

C. M. Rotella - Italy

Discussants:

E. Arvat - Italy

M. Boscaro - Italy

8:30 The role of endocannabinoids in
the first periods of life
E. Fride - Israel

9:10 Endocannabinoids and the HPA
D. Cota - USA

9:50 Endocannabinoids and the
regulation of bone metabolism
I. Bab - Israel

10:30 Coffee Break

ENDOCANNABINOIDS AND METABOLIC REGULATION

Chairmen:

M. Muggeo - Italy

S. Del Prato - Italy

Discussant:

A. Avogaro - Italy

10:50 The cannabinoid system and
insulin sensitivity
R. Nogueiras - USA

11:30 Endocannabinoids in the control
of adipocyte and beta-cell
function
I. Matias - Italy

12:10 Endocannabinoids and liver
diseases
P. Caraceni - Italy

12:50 Effect of CB1 antagonists poorly
penetrating the blood-brain
barrier
F. Rodriguez de Fonseca - Spain

13:30 Lunch

ENDOCANNABINOIDS AND OBESITY (I)

Chairmen:

F. Rohner-Jeanrenaud - Switzerland

V. Di Marzo - Italy

Discussants:

E. Nisoli - Italy

G. De Pergola - Italy

15:00 Endocannabinoids and nutrition
H. Hansen - Denmark

15:40 The endocannabinoid system in the physiology and pathophysiology of the gastrointestinal tract: focus on feeding behaviour
A. Izzo - Italy

16:20 How CB1 ko mice may help to understand the role of endocannabinoids in the regulation of metabolism and food intake
U. Pagotto - Italy

17:00 Coffee Break

ENDOCANNABINOIDS AND OBESITY (II)

Chairmen:

A. Tiengo - Italy

S. Cinti - Italy

Discussant:

F. Santini - Italy

17:20 Endocannabinoids and the regulation of adipose tissue function in humans
C. Pagano - Italy

18:00 Dysregulation of the peripheral and adipose tissue endocannabinoid system in human abdominal obesity
S. Engeli - Germany

18:40 CB1 blockade and its impact on cardiometabolic risk factors
A. Scheen - Belgium

19:20 Closing remarks

ENDOCANNABINOIDS IN INFLAMMATION AND CARDIOVASCULAR DISEASE (I)

Chairmen:

S. Iliceto - Italy

E. Agabiti Rosei - Italy

Discussants:

A. Zambon - Italy

F. Di Virgilio - Italy

8:30 Endocannabinoids and the
immune system

O. Ullrich - Germany

9:00 Cannabimimetic control of mast
cell mediator release:
new perspectives in chronic
inflammation

T. Iuvone - Italy

9:30 Endocannabinoids in
atherosclerosis

S. Steffens - Switzerland

10:00 Endocannabinoids and the heart

R. Sarzani - Italy

10:30 Coffee Break

ENDOCANNABINOIDS IN INFLAMMATION AND CARDIOVASCULAR DISEASE (II)

Chairmen:

E. Mannarino - Italy

A. Mezzetti - Italy

Discussant:

L. Sechi - Italy

10:50 Endocannabinoids and the
cardiovascular system

S. Batkai - USA

11:25 Effect of rimonabant on blood
pressure: evidence from clinical
trials

G. Grassi - Italy

12:00 **ROUND TABLE**
THE FUTURE OF ECS IN
ENDOCRINOLOGY, METABOLISM
AND CARDIOVASCULAR
DISEASE:
THE EFFICACY/SAFETY
BENEFITS OF CB1 BLOCKADE IN
PATIENTS

Participants: *A. Scheen - Belgium,*
G. Grassi - Italy, U. Pagotto - Italy
R. Pasquali - Italy

13:00 Closing remarks

R. Vettor - Italy

R. Pasquali - Italy

13:30 Lunch

E. AGABITI-ROSEI

Dept. of Medical and Surgical Sciences,
University of Brescia - Italy

E. ARVAT

Dept. of Internal Medicine,
University of Turin - Italy

A. AVOGARO

Dept. of Clinical and Experimental
Medicine, University of Padua - Italy

I. BAB

Bone Laboratory,
Hebrew University of Jerusalem - Israel

S. BATKAI

National Inst. of Health, Laboratory of
Physiologic Studies, Bethesda - USA

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Endocannabinoid Research Group,
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Metabolic Diseases, University of
Verona - Italy

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Marche - Italy

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University of Verona - Italy

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University of Bologna - Italy

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Research on Obesity,
University of Milan - Italy

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Anatomy, University of Ancona - Italy

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Endocrinology and Oncology, Section
of Endocrinology, University of Naples
'Federico II' - Italy

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Dept. of Psychiatry,
University of Cincinnati -USA

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University of Pisa - Italy

G. DE PERGOLA

Dept. of Emergency and Organ
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Research Centre, Quebec - Canada

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Medicine, Section of General Pathology,
University of Ferrara - Italy

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Franz Volhard Clinical Research Center,
University Clinic Charite Campus Buch,
Humboldt University of Berlin - Germany

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University of Padua - Italy

G. FEDERSPIL

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Internal Medicine, University of Padua - Italy

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of Florence - Italy

E. FRIDE

Dept. of Behavioural Sciences, College of
Judea and Samaria, Ariel - Israel

E. GHIGO

Dept. of Internal Medicine, University of
Turin - Italy

G. GRASSI

Dept. of Clinical Medicine and Prevention,
University of Milano-Bicocca - Italy

H. HANSEN

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Pharmacotherapy,
University of Copenhagen - Denmark

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Sciences, University of Padua - Italy

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University of Naples Federico II - Italy

A. IZZO

Dept. of Experimental Pharmacology,
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Laboratory of Physiologic Studies,
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University of Rome - Tor Vergata - Italy

A. LEON

Research & Innovation, Padua - Italy

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University of Teramo - Italy

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Institute, University of Cincinnati - USA

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University of Pisa - Italy

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Fundacion IMABIS, Neuropharmacology,
Hospital Carlos Haya, Malaga - Spain

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Unit, University of Florence - Italy

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University of Pisa - Italy

R. SARZANI

Dept. of Internal Medicine, Hypertension and
Cardiovascular Disease Section,
University of Ancona - Italy

A. SCHEEN

Dept. of Medicine, Division of Diabetes,
Nutrition and Metabolic Disorders and
Division of Clinical Pharmacology,
University of Liege - Belgium

L. SECHI

Dept. of Internal Medicine,
University of Udine - Italy

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University of Geneva - Switzerland

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Dept. of Cardiology, IRCCS
Policlinico San Matteo, Pavia - Italy

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University of Padua - Italy

O. ULLRICH

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Magdeburg - Germany

L. VAN GAAL

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Clinical Nutrition,
University of Antwerp - Belgium

R. VETTOR

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University of Padua - Italy

R. VIGNERI

Dept. of Internal and Specialistic Medicine,
Division of Endocrinology University of
Catania - Italy

A. ZAMBON

Dept. of Medical and Surgical Sciences,
University of Padua - Italy

CME CREDIT

The International Workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular Diseases” has been accredited by the C.M.E. Regional Health System for the following professionals:

- **Medical doctor, 7 C.M.E. credits**
- **Biologist, 7 C.M.E. credits**

Participants are asked to fill in the questionnaire and return it to the Workshop Secretariat (registration desk) when they collect their certificate of attendance.

FACULTY

For Invited Speakers, Chairmen and Discussants, a dedicated counter will be located in the Workshop Secretariat area.

SLIDE PREVIEW ROOM

The slide preview room will be located in the “Sala della Basilica”, Palazzo del Bo’.

All Workshop Speakers should hand in their presentation (on CD, disk, USB memory device) to the slide preview room at least two hours before the scheduled time of their presentation.

WORKSHOP VENUE

The International Workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular Diseases” will be held from Thursday, July 5th to Saturday, July 7th, 2007 at the Aula Magna “Galileo Galilei”, Palazzo del Bo’, University of Padua.

Address:

Palazzo del Bo’ - University of Padua
Via VIII Febbraio 1848, 2 - 35122 Padua
www.unipd.it

LANGUAGE

The official language of the Workshop will be **English**.

OPENING SCHEDULE

Thursday, July 5th

Registration	12:30 - 14:00
Working sessions	14:00 - 19:00

Friday, July 6th

Working sessions	08:30 - 19:20
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Saturday, July 7th

Working sessions	08:30 - 13:00
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REGISTRATION

Participation at the International Workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular diseases” is **on invitation only**.

Confirmation of participation will be provided only via e-mail to the address indicated and should be exhibited at the registration desk on the first day of the Workshop.

BADGES

Registration badges will be required for admission to all Workshop functions and scientific sessions.

Badge colour code:

Delegates: **BLUE**

Faculty: **RED**

INSURANCE

The Organizers of the International Workshop on “Endocannabinoids in Endocrinology, Metabolism and Cardiovascular diseases” do not accept liability for any injury, loss or damage, arising from accidents or other situations during, or as a consequence of the Workshop. Participants are therefore advised to arrange for health and accident insurance prior to travelling to the Workshop.

HOW TO REACH PADUA AND THE WORKSHOP VENUE

By plane

The nearest airport is the Venice International Airport "Marco Polo" (www.veniceairport.it) located 30 km from Padua and connected to several destinations by direct flights. Intercontinental flights connect via Rome, Milan or other European gateways.

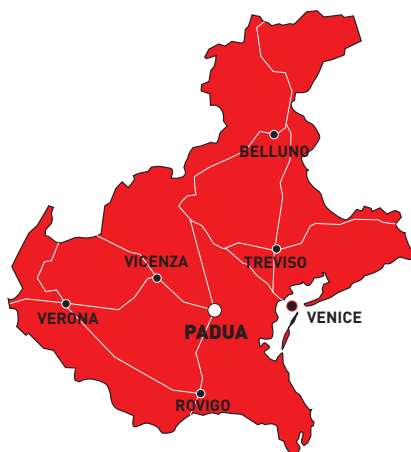
Assistance: coinciding with your flight arrival time, you will find our hostess at the "ARRIVALS" hall who will take care of your transfer.

By train

"Padova" Railway Station on the train line Milan-Venice and Bologna-Venice. There are several daily connections. Trenitalia web site: www.trenitalia.it

By car

- Motorway A4 Milan-Venice exit "Padova-Est"
 - Motorway A13 Bologna-Venice exit "Padova-Sud"
- Follow traffic signal to "Padova Centro"



TRANSFER SERVICE

The Organizing Secretariat will provide the following private transfer services:

Airport:

- From Venice International Airport "Marco Polo"

A private shuttle taxi will be provided: it will take you directly to the Padua's assigned Hotel.

Railway station:

- From Padua Railway Station

A private shuttle taxi will be provided: it will take you directly to the assigned Hotel.

Hotels/Workshop venue:

All selected Hotels are situated at walking distance from the Workshop venue. Therefore no shuttle service will be necessary.

An **hospitality desk** will be set up at the reception hall of each selected Hotel (Thursday 5th of July from 10.00 to 13.00 – from 19.30 to 21.30 / Friday 6th of July from 19.30 to 21.00 / Saturday 7th of July from 13.00 to 16.00). Each participant will be given assistance in order to find the Palazzo del Bo' independently.

CLIMATE

The climate in July in Padua is usually hot. We would advise you to bring light clothing!

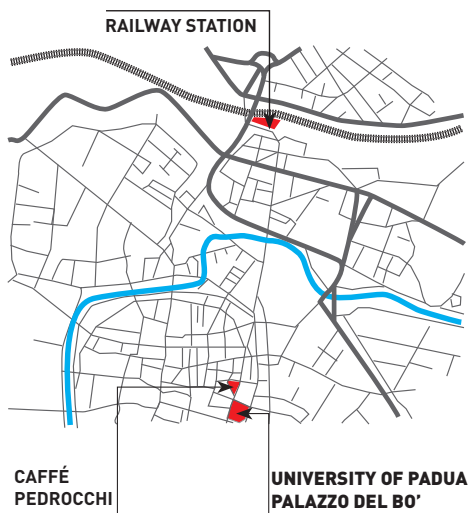
SMOKING POLICY

In adherence to Italian Law, smoking in public facilities is prohibited.

HOTEL ACCOMODATION

The Organizing Secretariat has foreseen Hotel accommodation in four star Hotels situated in the historical center of Padua, walking distance from the Workshop venue.

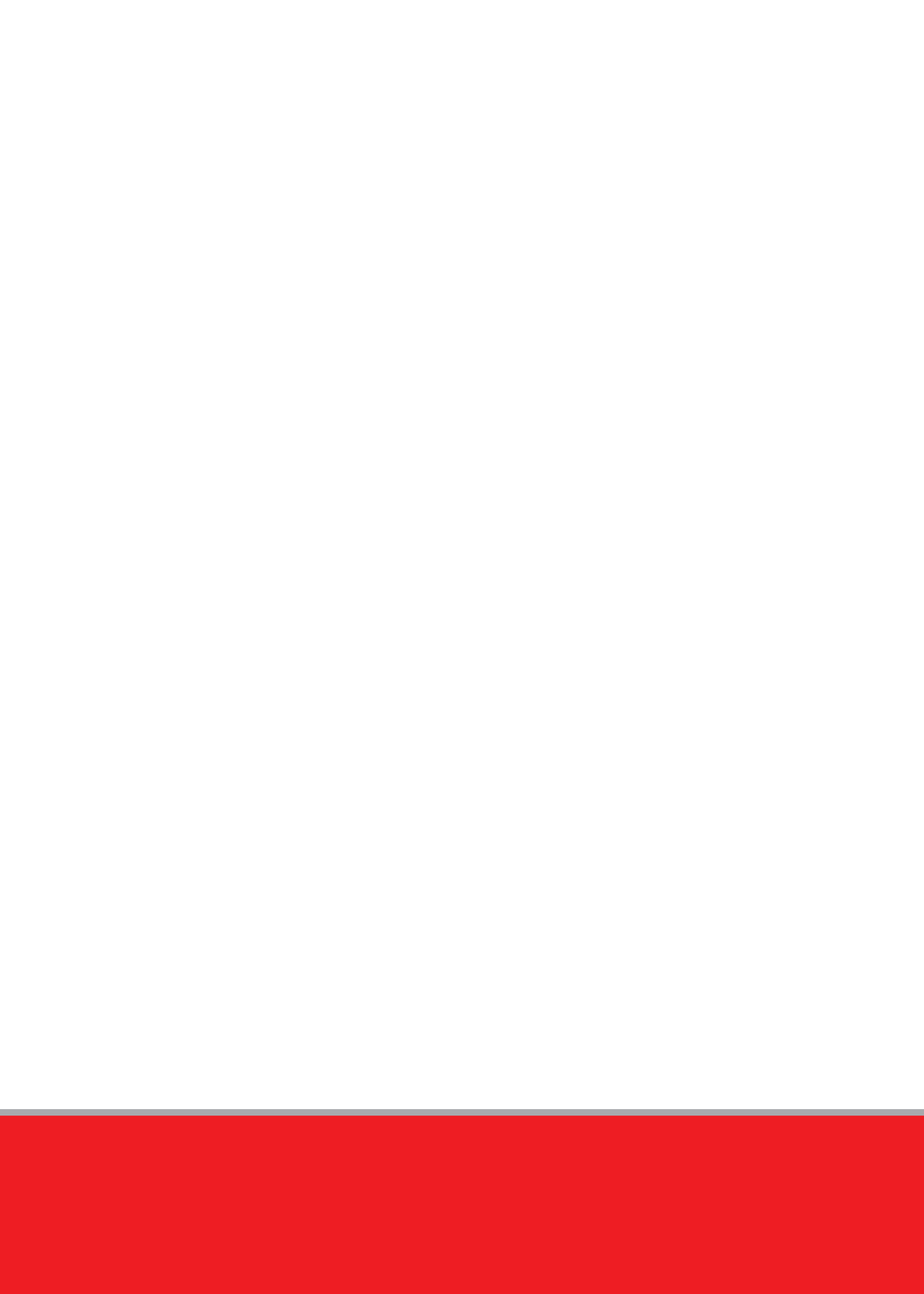
HISTORICAL CENTRE OF PADUA



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