

### ***Organizing and Scientific Committee***

Maurizio Massi

Carlo Polidori

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### ***Local Coordinating Committee:***

Carlo Polidori

Roberto Ciccocioppo

### ***Scientific informations***

#### ***Oral Communications***

Oral communications (preferentially in English) will last 20 min, including discussion (15+5 minuti)

Material for videoprojection (Power point) should be given to the Meeting Secretariat (at the Aula della Muta, Palazzo Ducale) between 18.00 and 20.00 hr of the 14<sup>th</sup> of September.

#### ***Posters***

Posters, 160 cm wide and 85 cm high, (preferentially in English) should be exhibited in the Poster Room (near the Aula della Muta) before the beginning of the meeting (either the evening of the 14<sup>th</sup> or the early morning of the 15<sup>th</sup> of September).

### *Acknowledgements*

The Organizing Committee gratefully acknowledges the economical support to the meeting of the Italian Pharmacological Society, as well as of the following contributors:

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Zieglerstraße 6  
52099 AACHEN, Germany

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## SCIENTIFIC PROGRAM

**8.30-8.45**      **Opening of the meeting**  
M. Massi (Organizing Committee)  
W. Fratta (Coordinator of the SIF Monothematic Meetings)

**8.45-9.30**      **Keynote Lecture**  
NOCICEPTIN AND ITS RECEPTOR: UTILIZING  
FUNCTIONAL GENOMICS TO IDENTIFY NEW PAIN  
AND OTHER TREATMENTS  
Prof JC Meunier, Université de Toulouse, France  
Presented by D. Regoli (Ferrara)

### Oral Communications

**9.30-10.50**      **N/OFQ-NOP receptor interactions; new ligands for the  
NOP receptor**

**Chairpersons: D. Regoli (Ferrara), S. Salvadori (Ferrara)**

**9.30-9.50**  
MESSAGE/ADDRESS SEQUENCE MODIFICATIONS OF NOCICEPTIN/  
ORPHANIN FQ GENERATE NEW HIGHLY POTENT LIGANDS FOR THE  
NOP RECEPTOR

<sup>1</sup>Trapella C., <sup>1</sup>Zucchini M., <sup>2</sup>Carra' G., <sup>1</sup>Guerrini R., <sup>2</sup>Calò G., <sup>1</sup>Marzola E.,  
<sup>1</sup>Arduin M., <sup>2</sup>Rizzi D., <sup>2</sup>Regoli D. and <sup>1</sup>Salvadori S.

<sup>1</sup>Dept. of Pharmaceutical Sciences and <sup>2</sup>Dept. of Pharmacology, University of  
Ferrara, Via Fossato di Mortara 19, 44100 Ferrara, Italy.

### **9.50-10.10**

UFP-102, A NOVEL HIGHLY POTENT AGONIST FOR THE NOCICEPTIN/ORPHANIN FQ RECEPTOR – IN VIVO STUDIES

Rizzi A., Carra' G., Rizzi D., Gavioli E.C., Zucchini S., Marzola G., °Salvadori S., °Guerrini R., Regoli D. and Calò G.

*Dept. Experimental and Clinical Medicine – Section of Pharmacology, and °Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy.*

### **10.10-10.30**

UFP-101, A NOVEL PEPTIDE SELECTIVE ANTAGONIST FOR THE NOP RECEPTOR – SUMMARY OF IN VITRO AND IN VIVO STUDIES

<sup>1</sup>Calò G., <sup>2</sup>Guerrini R., <sup>3</sup>Lambert D.G., <sup>1</sup>Rizzi A., <sup>1</sup>Rizzi D., <sup>1</sup>Gavioli E.C., <sup>1</sup>Marzola G. <sup>1</sup>Carra' G., <sup>3</sup>McDonald J., <sup>2</sup>Salvadori S. and <sup>1</sup>Regoli D.

*<sup>1</sup>Dept. of Pharmacology and <sup>2</sup>Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy, <sup>3</sup>Dept. of Anaesthesia, University of Leicester, LE1 5WW Leicester, U.K.*

### **10.30-10.50**

USING THE ECDYSONE INDUCIBLE EXPRESSION SYSTEM TO PROBE PARTIAL AGONISM AT HUMAN NOP. STUDIES WITH [PHE<sup>1</sup>ψ(CH<sub>2</sub>-NH)GLY<sup>2</sup>]N/OFQ(1-13)NH<sub>2</sub>

McDonald J.<sup>1</sup>, Barnes T.<sup>1</sup>, Rowbotham D.J.<sup>1</sup>, Calò G.<sup>2</sup>, Lambert D.<sup>1</sup>.

*<sup>1</sup>University Department of Anaesthesia, Critical Care and Pain Management, Leicester Royal Infirmary, Leicester, LE1 5WW, UK <sup>2</sup>Department of Experimental and Clinical Medicine, Section of Pharmacology and Neuroscience Centre, University of Ferrara, via Fossato di Mortara 17, 44100 Ferrara, Italy.*

**10.50-11.10 Coffee break**

**11.10-13.10 N/OFQ in neurological and psychiatric disorders**

**Chairpersons: L. Beani (Ferrara), M. Massi (Camerino)**

### **11.10-11.30**

BLOCKADE OF NOCICEPTIN/ORPHANIN FQ – NOP RECEPTOR SIGNALLING PRODUCES ANTIDEPRESSANT-LIKE EFFECTS

<sup>1,3</sup>Gavioli E.C., <sup>1</sup>Marzola G., <sup>2</sup>Guerrini R., <sup>2</sup>Salvadori S., <sup>1</sup>Zucchini S., <sup>3</sup>De Lima T.C.M., <sup>3</sup>Rae G.A., <sup>1</sup>Regoli D. and <sup>1</sup>Calo'G.

<sup>1</sup>*Dept. of Pharmacology and* <sup>2</sup>*Dept. of Pharmaceutical Sciences University of Ferrara, 44100 Ferrara, Italy.* <sup>3</sup>*Dept. of Pharmacology, Universidade Federal de Santa Catarina, Florianópolis, Brazil.*

### **11.30-11.50**

THE BED NUCLEUS OF THE STRIA TERMINALIS: SITE FOR CRF-INDUCED ANOREXIA AND ITS REVERSAL BY NOCICEPTIN/ORPHANIN FQ.

Ciccocioppo R., Economidou D., Fedeli, A., \*Weiss F., Massi M.

*Department of Pharmacological Sciences and Experimental Medicine, University of Camerino, Via Scalzino 3, 62032 Camerino, Italy, \*Department of Neuropharmacology, The Scripps Research Institute, 92037 La Jolla, Ca, USA*

### **11.50-12.10**

ACUTE AND CHRONIC STRESS INDUCE AN UP-REGULATION OF ORL1 mRNA EXPRESSION IN THE RAT HIPPOCAMPUS.

Zambello E., Bacchi F., Arban R., Andreetta V. and Caberlotto L.

*Dept. Biology, Psychiatry-CEDD, GlaxoSmithkline, Verona, Italy.*

### **12.10-12.30**

BLOCKADE OF STRESS-, CRF- AND UROCORTIN II-INDUCED ANOREXIA BY THE NOP RECEPTOR AGONIST RO 64-6198.

Fedeli A., Policani F., Economidou D., Cippitelli A., Ciccocioppo R., Massi M.

*Dept. of Pharmacological Sciences and Experimental Medicine, University of Camerino, Italy.*

### **12.30-12.50**

INVOLVEMENT OF THE NEUROPEPTIDE NOCICEPTIN/ ORPHANIN FQ IN KAINATE SEIZURES

Mazuferi M.<sup>1</sup>, Simonato M.<sup>1</sup>, Carmona Aparicio L.<sup>1</sup>, Bregola G.<sup>1</sup>, Zucchini S.<sup>1</sup>, Rodi D.<sup>1</sup>, Binaschi A.<sup>1</sup>, D'Addario C.<sup>2</sup>, Landuzzi D.<sup>2</sup>, Di Benedetto M.<sup>2</sup>, Reinscheid R.K.<sup>3</sup>, Romualdi P.<sup>2</sup> and Candeletti S.<sup>2</sup>

<sup>1</sup>*Neuroscience Center, Univ. Ferrara,* <sup>2</sup>*Dept. Pharmacol., Univ. Bologna and* <sup>3</sup>*Dept. Pharmacol., Univ. California at Irvine, CA, USA.*

**12.50-13.10**

THE N/OAQ-NOP RECEPTOR SYSTEM IN THE SUBSTANTIA NIGRA MODULATES STRIATAL DOPAMINE RELEASE AND MOTOR BEHAVIOR IN RATS.

<sup>1</sup>Marti M., <sup>1</sup>Mela F., <sup>1</sup>Ulazzi L., <sup>1</sup>Vaccari E., <sup>2</sup>Guerrini R., <sup>2</sup>Trapella C., <sup>1</sup>Beani L., <sup>1</sup>Bianchi C., and <sup>1</sup>Morari M.

<sup>1</sup>*Dept. of Experimental and Clinical Medicine, Sect. of Pharmacology and Neuroscience Centre;* <sup>2</sup>*Dept. of Pharmaceutical Sciences and Biotechnology Centre, University of Ferrara, 44100 Ferrara, Italy.*

**13.10-14.10      Lunch**

**14.10-15.30      Poster session**

**15.30-16.50      N/OAQ in Pain and drug abuse**

**Chairpersons: W. Fratta (Cagliari), F. Guidobono (Milano)**

**15.30-15.50**

NOCICEPTIN/ORPHANIN FQ INHIBITS ETHANOL SELF-ADMINISTRATION AND CONDITIONED REINSTATEMENT OF ALCOHOL-SEEKING BEHAVIOUR IN ALCOHOL-PREFERRING RATS

Economidou D., Ciccocioppo R., Fedeli, A., Angeletti S., \*Weiss F., Massi M.  
*Department of Pharmacological Sciences and Experimental Medicine, University of Camerino, via Scalzino 3, 62032 Camerino, Italy, \*Department of Neuropharmacology, the Scripps Research Institute, 92037 LA JOLLA, CA, USA.*

**15.50-16.10**

ALCOHOL AND NEUROPEPTIDES IN GABAERGIC TRANSMISSION IN THE CENTRAL NUCLEUS OF AMYGDALA

Roberto M., Madamba S.G., \*Ciccocioppo R. and Siggins G.R.

*The Scripps Research Institute, 10550 N. Torrey Pines, La Jolla, 92037, CA, USA and \*Dept. of Pharmacological Sciences and Experimental Medicine, University of Camerino, 62032 CAMERINO, Italy.*

**16.10-16.30**

EFFECT OF NOCICEPTIN ON OPIOID AND NON-OPIOID ANTINOCICEPTIVE ACTIVITY

Lattuada N., Rapetti D., Sibia V., Pagani F., Netti C., Guidobono F.  
*Department of Pharmacology, Chemotherapy and Medical Toxicology, University of Milano, Italy.*

**16.30-16.50**

POSSIBLE INVOLVEMENT OF NOCICEPTIN/NOP ENDOGENOUS SYSTEM IN MORPHINE TOLERANCE IN THE RAT HIPPOCAMPUS

Landuzzi D., D'Addario C., Di Benedetto M., Romualdi P., Candeletti S.  
*Dept. of Pharmacology, University of Bologna, Irnerio 48, 40126 Bologna, Italy.*

**16.50-17.10 Clinical studies with N/OFQ**

**Chairpersons: S. Spampinato (Bologna), Rossi (Napoli)**

INTRAVESICAL NOCICEPTIN/ORPHANIN FQ IN PATIENTS WITH NEUROGENIC DETRUSOR OVERACTIVITY: TWO YEARS OF EXPERIENCE

Lazzeri M., Calò G., Spinelli M., Guerrini R., Salvadori S., Beneforti P., Regoli D. and Turini D.  
*Department of Urology and Department of Experimental and Clinical Medicine, Section of Pharmacology, Neuroscience Center, University of Ferrara – Italy; Department of Urology - Spinal Unit – “Ospedale Civile di Magenta”, Magenta (MI) – Italy.*

**17.10-17.30 Conclusions and Future Directions: General discussion**  
**Chairpersons: D. Regoli, M. Massi,**

## POSTER SESSION

**Moderatori: R. Arletti (Modena), L. Caberlotto (Verona), M. Morari (Ferrara)**

- 1) NONPEPTIDE/PEPTIDE CHIMERIC LIGANDS FOR THE NOCICEPTIN/ ORPHANIN FQ RECEPTORS  
<sup>1</sup>Zucchini M., <sup>1</sup>Trapella C., <sup>1</sup>Guerrini R., <sup>2</sup>Calò G., <sup>1</sup>Marzola E., <sup>1</sup>Arduin M., <sup>2</sup>Carra' G., <sup>2</sup>Rizzi D., <sup>2</sup>Regoli D. and <sup>1</sup>Salvadori S.  
*<sup>1</sup>Dept. of Pharmaceutical Sciences and <sup>2</sup>Dept. of Pharmacology, University of Ferrara, Via Fossato di Mortara 19, 44100 Ferrara, Italy.*
- 1) ANTAGONIST HEXAPEPTIDES FOR THE NOCICEPTIN RECEPTOR: STRUCTURAL MODIFICATIONS, RECEPTOR BINDING AND FUNCTIONAL BIOCHEMICAL CHARACTERISATION.  
Benyhe S., Gündüz Ö., Sipos\* F., Kocsis\* L., Ligeti\* M., Magyar\* A., Orosz\* Gy., Farkas J., Tóth G. and Borsodi A.  
*Institute of Biochemistry, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary,\*Research Group for Peptide Chemistry, Hungarian Academy of Sciences, Budapest, Hungary.*
- 2) UFP-102, A NOVEL HIGHLY POTENT AGONIST FOR THE NOCICEPTIN/ORPHANIN FQ RECEPTOR – IN VITRO STUDIES  
Carra' G., Rizzi A., Rizzi D., Gavioli E.C., Zucchini S., Marzola G., <sup>°</sup>Salvadori S., <sup>°</sup>Guerrini R., Regoli D. and Calò G.  
*Dept. Experimental and Clinical Medicine – Section of Pharmacology, and <sup>°</sup>Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy.*
- 3) GTP $\gamma$ [<sup>35</sup>S] BINDING AFFINITY IS INDEPENDENT OF CELL TYPE AND RECEPTOR ACTIVATION. STUDIES USING NATIVE AND RECOMBINANT NOP RECEPTORS.  
McDonald J. and Lambert D.  
*University Department of Anaesthesia, Critical Care and Pain Management, Leicester Royal Infirmary, Leicester, LE1 5WW, UK*
- 4) INTERNALIZATION AND RECYCLING OF THE HUMAN NOP RECEPTOR EXPOSED TO NOCICEPTIN-RELATED PEPTIDES IN CHO CELLS  
Di Toro R., Calienni M., Leggio G.M., Spampinato S.  
*Dept. Pharmacology, Univ. of Bologna, Irnerio 48, 40126 Bologna, Italy.*
- 5) ORPHANIN FQ PREVENTED EEG LIMBIC SEIZURES INDUCED BY DELTORPHIN II IN RABBITS.  
Di Giannuario A. and Pieretti S.  
*Department of Pharmacology, Istituto Superiore di Sanità, V.le Regina Elena 299, 00161 Rome Italy.*



- 6) ANTIEPILEPTIFORM ACTIVITY OF ORPHANIN FQ ON EEG SEIZURES INDUCED BY  $\beta$ -ENDORPHIN IN RABBITS.  
Pieretti S., Zivanovic D., Di Giannuario A.  
*Department of Pharmacology, Istituto Superiore di Sanita', V.le Regina Elena 299, 00161 Roma, Italy.*
- 7) BEHAVIOURAL EVIDENCE FOR FUNCTIONAL HETEROGENEITY OF ORL-1 RECEPTORS.  
Kuzmin A., Terenius L. and Ögren S.O.  
*Departments of Neuroscience and #Clinical Neuroscience, Karolinska Institutet, S-171 77 Stockholm, Sweden.*
- 8) DIFFERENT PHARMACOLOGICAL PROPERTIES OF PRESYNAPTIC NOCICEPTIN/ORPHANIN FQ RECEPTORS MODULATING 5-HYDROXY-TRYPTAMINE AND NORADRENALINE EFFLUX IN THE RAT NEOCORTEX.  
<sup>1</sup>Marti M., <sup>1</sup>Mela F., <sup>2</sup>De Risi C., <sup>2,3</sup> Guerrini R., <sup>1</sup>Beani L., <sup>1</sup>Bianchi C. and <sup>1</sup>Morari M. <sup>1</sup>*Dpt. of Experimental and Clinical Medicine, Section of Pharmacology and Neuroscience Center; <sup>2</sup>Dpt. of Pharmaceutical Sciences and <sup>3</sup>Biotechnology Center, University of Ferrara, 44100 Ferrara, Italy.*
- 10) PHARMACOLOGICAL CHARACTERIZATION OF PRESYNAPTIC NOCICEPTIN/ORPHANIN FQ RECEPTORS MODULATING 5-HYDROXY-TRYPTAMINE EFFLUX FROM MOUSE CORTICAL SYNAPTOSOMES.  
<sup>1</sup>Mela F., <sup>1</sup>Ulazzi L., <sup>1</sup>Vaccari E., <sup>1</sup>Marti M., <sup>1</sup>Zucchini S., <sup>2</sup>Guerrini R., <sup>2</sup>Trapella C., <sup>1</sup>Beani L., <sup>1</sup>Bianchi C. and <sup>1</sup>Morari M.  
<sup>1</sup>*Dpt. of Experimental and Clinical Medicine, Section of Pharmacology and Neuroscience Center; <sup>2</sup>Dpt. of Pharmaceutical Sciences and Biotechnology Center, University of Ferrara, 44100 Ferrara, Italy.*
- 11) IS NOCICEPTIN/ORPHANIN FQ, AT LOW DOSES, ANXIogenic RATHER THAN ANXIOLYTIC?  
Vitale G., Filafarro M., Frigieri C. and Arletti R.  
*Department of Biomedical Sciences, Section of Pharmacology, University of Modena and Reggio Emilia, Italy.*
- 12) MAPPING OF BRAIN SITES SENSITIVE TO THE INHIBITORY EFFECT OF NOCICEPTIN/ORPHANIN FQ ON CRF-INDUCED ANOREXIA  
Fedeli A., Ciccocioppo R., Economidou D. and Massi M.  
*Department of Pharmacological Sciences and Experimental Medicine, University of Camerino, 62032 CAMERINO, Italy.*

- 13) INCREASED INFLAMMATORY HYPERALGESIA IN MICE LACKING THE NOCICEPTIN PRECURSOR POLYPEPTIDE OR THE NOCICEPTIN RECEPTOR.  
Depner U.B.<sup>1</sup>, Reinscheid R.K.<sup>2</sup>, Takeshima H.<sup>3</sup>, Zeilhofer H.U.<sup>1</sup>  
<sup>1</sup>*Institut für Pharmakologie, Universität Erlangen-Nürnberg, Germany,*  
<sup>2</sup>*Department of Pharmacology, University of California Irvine, USA,*  
<sup>3</sup>*Department of Biochemistry, Tohoku University, Japan.*
- 14) SUPRASPINAL INJECTION OF NOCISTATIN PREVENTS NOCICEPTIN ANTAGONISTIC EFFECT ON OPIOID ANALGESIA IN THE RAT  
Parenti C., Maugeri C., Santangelo N., Scavo V., Marchetti B.\* and Scoto G.M.  
*Departments of: Pharmaceutical Sciences-Pharmacology Section, School of Pharmacy, University of Catania, 95125 Catania, \*Pharmacology, Medical School, University of Sassari, 07100 Sassari, Italy.*
- 15) EFFECTS OF NOCICEPTIN/ORPHANIN FQ CREAM ON CAPSAICIN CREAM-INDUCED PAIN IN HUMAN VOLUNTEERS  
Hashiba E., <sup>1</sup>Hirota K., <sup>2</sup>Calo' G., <sup>3</sup>Guerrini R., <sup>1</sup>Matsuki A.  
<sup>1</sup>*Dept. of Anaesthesiology, Univ. of Hirosaki School of Medicine, Japan.*  
<sup>2</sup>*Dept. of Experimental and Clinical Medicine, Section of Pharmacology and Neuroscience Centre, and* <sup>3</sup>*Dept. of Pharmaceutical Sciences and Biotechnology Centre, University of Ferrara, Italy.*
- 16) POSSIBLE INTERACTIONS BETWEEN OPIOID SYSTEM AND ALCOHOL INTAKE: BEHAVIORAL EVIDENCES.  
Rimondini R.<sup>1\*</sup>, Marquitz M.<sup>1</sup>, Sommer W.<sup>1</sup>, Heilig M.<sup>1</sup>  
<sup>1</sup>*Dept. of NEUROTEC, Karolinska Institute, Stockholm, Sweden.*
- 17) NOCICEPTIN/ORPHANIN FQ REDUCES ETHANOL SELF-ADMINISTRATION IN GENETICALLY SELECTED MARCHIGIAN SARDINIAN ALCOHOL-PREFERRING RATS, BUT NOT IN HETEROGENEOUS WISTAR RATS  
Fedeli A., Economidou D., Policani F., Cippitelli A., Ciccocioppo R. and Massi M.  
*Dept. of Pharmacological Sciences and Experimental Medicine, University of Camerino, Italy.*

- 18) ROLE OF NOCICEPTIN IN THE BRONCHOCONSTRICTION AND AIRWAY INFLAMMATION INDUCED BY HCL INTRAESOPHAGEAL INSTILLATION IN THE RABBIT  
D'Agostino B.<sup>1</sup>, De Nardo M.<sup>1</sup>, Gallelli L.<sup>2</sup>, Marrocco G.<sup>1</sup>, Mosca V.<sup>1</sup>, Cangianiello M.<sup>1</sup>, Advenier C.<sup>3</sup>, Rossi F.<sup>1</sup>  
<sup>1</sup>Dep. of Experimental Medicine, Section of Pharmacology, Second University of Naples, Italy, <sup>2</sup>Dep. of Experimental and Clinical Medicine, University "Magna Graecia" of Catanzaro, Italy <sup>3</sup>Pharmacologie Respiratoire Faculté de Medecine Paris-Ouest and UFR biomédicale des Saints-Peres, Paris, France.
- 19) NOCICEPTIN/ORPHANIAN FQ INHIBITS ELECTRICALLY-INDUCED CONTRACTIONS OF THE HUMAN BRONCHUS VIA NOP RECEPTOR ACTIVATION AND STIMULATION OF POTASSIUM CURRENTS  
Basso M., <sup>1</sup>Naline E., <sup>2</sup>Calo' G., <sup>3</sup>Guerrini R., <sup>2</sup>Regoli D. and <sup>1</sup>Advenier C.  
<sup>1</sup>UPRES EA220, Faculté de Médecine Paris-Ile de France-Ouest and U.F.R. Biomédicale des Saints Pères, 75006 Paris, France. <sup>2</sup>Dept. of Pharmacology and <sup>3</sup>Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy.
- 20) CENTRAL NOCICEPTIN PREVENTS THE DEVELOPMENT OF ETHANOL-INDUCED GASTRIC LESIONS IN THE RAT  
Uberti L.<sup>1</sup>, Giannini G.<sup>1</sup>, Morini G.<sup>1</sup>, de Caro G.<sup>1</sup>, Polidori C.<sup>2</sup>, Massi M.<sup>2</sup>  
<sup>1</sup>Department of Human Anatomy, Pharmacology and Forensic Medicine, University of Parma, Parma, Italy and <sup>2</sup>Department of Pharmacological Sciences and Experimental Medicine, University of Camerino, Camerino, ITALY.
- 21) DIFFERENTIAL CARDIOVASCULAR AND RENAL RESPONSES PRODUCED BY THE CENTRAL VERSUS PERIPHERAL ADMINISTRATION OF NOP RECEPTOR PARTIAL AGONISTS.  
Kapusta D.R.<sup>1</sup>, Burmeister M.<sup>1</sup>, Calo' G.<sup>2</sup>, Guerrini R.<sup>3</sup>, Gottlieb H.<sup>1</sup> and Kenigs V.A.<sup>1</sup>  
<sup>1</sup>Department of Pharmacology, Louisiana State University Health Sciences Center, New Orleans, LA, USA, 70112, and <sup>2</sup>Department of Experimental and Clinical Medicine, Section of Pharmacology and Neuroscience Center, University of Ferrara, via Fossato di Mortara, 17, 44100 Ferrara, Italy.
- 22) RENAL EFFECTS PRODUCED BY CENTRAL ACTIVATION OF THE N/OFQ-NOP RECEPTOR SYSTEM: AN IN VIVO STUDY IN MICE  
Rizzi D., <sup>3</sup>Kapusta D., <sup>1</sup>Calo' G., <sup>2</sup>Guerrini R., <sup>2</sup>Salvadori S. and <sup>1</sup>Regoli D.  
<sup>1</sup>Dept. of Pharmacology and <sup>2</sup>Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy. <sup>3</sup> Dept of Pharmacology, Louisiana State University Health Sciences Center, 70112 New Orleans, Louisiana.

23) CHEMOTACTIC EFFECTS OF NOCICEPTIN/ORPHANIN FQ ON HUMAN MONOCYTES ARE MEDIATED BY NOP RECEPTOR ACTIVATION

<sup>1</sup>Trombella S., <sup>2</sup>Vergura R., <sup>3</sup>Guerrini R., <sup>2</sup>Calo' G. and <sup>1</sup>S. Spisani.

<sup>1</sup>*Dept. of Biochemistry and Molecular Biology*, <sup>2</sup>*Dept. of Pharmacology*,  
<sup>3</sup>*Dept. of Pharmaceutical Sciences, University of Ferrara, 44100 Ferrara, Italy*

24) GASTROINTESTINAL EFFECTS OF CENTRALLY INJECTED ORPHANIN FQ/NOCICEPTIN IN RATS

Petrella C., Agostini S., Improta G., Broccardo M.

*Department of Human Physiology and Pharmacology, University "La Sapienza", P.le A.Moro, 5, 00185, Rome, Italy.*

**Here enclosed please find information concerning the meeting on Nociceptin/Orphanin FQ of the 15th of September.**

The Registration desk will be open from 1600 to 2000 h on the evening of Sunday 14 September. It will be located in Piazza Cavour, the main square of Camerino where the Cathedral and the "Palazzo Ducale" are located. The Registration desk will be near the Courtyard of the "Palazzo Ducale", above the Aula della Muta, where the meeting will take place. You will find signs outside the Palazzo Ducale.

**How to reach Camerino**

**To Camerino from Rome by Car**

Take exit Orte and follow indications toward Foligno. At Foligno make a right toward the indication "Macerata - Camerino". From there you will have to drive in mountain roads for 45 min. Arrived in Camerino follow directions for the Historic Center of the town (inside the walls that surround the town). In the main square "Piazza Cavour" you will find the signs for the Registration desk.

**To Camerino from Rome by Train**

Take the train to Ancona. Change train in Fabriano, getting the one to Civitanova Marche. Get out of the train at the Castelraimondo-Camerino station. Outside the station a blue bus will bring you to Camerino. Take the elevator and you will be in the main square "Piazza Cavour" where the Registration desk is located

**To Camerino from Rome airport**

Take the train from the airport to Roma Termini. Take the train to Ancona. Change train in Fabriano, getting the one to Civitanova Marche. Get out of the train at the Castelraimondo-Camerino station. Outside the station a blue bus will bring you to Camerino. Take the elevator and you will be in the main square "Piazza Cavour" where the Registration desk is located

**To Camerino from the Adriatic coast by Car**

Exit from the Autostrada (highway A14) at Civitanova Marche. Make a left at the crossroad and follow the road for half a kilometer; then make a right for Macerata-Tolentino-Camerino. At the end of the Superstrada (9 km from Camerino) follow the directions to the Historic Center of the town (inside the walls that surround the town). In the main square "Piazza Cavour" you will find the signs for the Registration desk.

**To Camerino from the Adriatic coast by Train**

Take the train to Civitanova Marche. Take the train to Fabriano and get off the train at the Castelraimondo-Camerino station. Outside the station a blue bus will bring you to Camerino. Take the elevator and you will be in the main square "Piazza Cavour" where the Registration desk is located.

**To Camerino from Falconara-Ancona airport**

Take the train to Fabriano. Change the train in Fabriano and get the train to Civitanova Marche. Get off the train at the Castelraimondo-Camerino station. Outside the station a blue bus will bring you to Camerino. Take the elevator and you will be in the main square "Piazza Cavour" where the  
> Registration desk is located

Looking forward to seeing you in Camerino

The Organizing Committee

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