

**Contribution of PCR-SSCP, PCR-RFLP, isoelectric focusing and starch gel electrophoresis techniques in the study of phenetic and genetic polymorphism of *Echinococcus granulosus* in Tunisia**

Myriam Oudni-M'Rad, Selim M'Rad, Mongi Mekki, Mohsen Belguith, Taoufik Sayadi, Francine Pratlong, Jacques Cabaret, Abdellatif Nouri, Rached Azaiez, Habib Mezhoud, et al.

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# 1<sup>st</sup> Three Countries Joint Meeting

French Society of Parasitology  
German Society of Parasitology  
Swiss Society of Tropical Medicine and Parasitology

“LIVING TOGETHER”



## Physiopathology of Intracellular Parasitic Diseases

**Faculté de Médecine  
de l'Université Louis Pasteur  
4 rue Kirschleger  
Strasbourg (France)**

13–16 June 2007

ORGANIZING COMMITTEE

Pr Dr E. CANDOLFI   Pr Dr U. GROSS   Pr Dr A. HEMPHILL

**We gratefully acknowledge the support of :**

**LA VILLE DE STRASBOURG**

**L'UNIVERSITE LOUIS PASTEUR DE STRASBOURG**

**LA FACULTE DE MEDECINE DE STRASBOURG**

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**VIRION MEDICAL MICROBIOLOGY**

The Meeting of the French Society of Parasitology, the German Society of Parasitology and the Swiss Society of Tropical Medicine and Parasitology is the 1<sup>st</sup> Three Countries Joint meeting. The meeting proposes a multidisciplinary approach to discuss the latest results on physiopathology and treatment of diseases caused by intracellular parasites of medical and veterinary importance such as malaria, toxoplasmosis, neosporosis, theileriasis, eimeriosis, leishmaniasis and trichinellosis. In addition, other aspects related to other parasitic diseases such as echinococcosis will also be discussed.

## **CONGRESS LOCALISATION**

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Faculté de Médecine  
Université Louis Pasteur de Strasbourg  
4 rue Kirschleger  
67000 Strasbourg  
*(it is down town just next to the famous Petite France)*

## **LOCAL ORGANIZING COMMITTEE**

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**President:** Pr Dr Ermanno CANDOLFI

**Treasurer:** Ms Christine GUIBERT from CONGRES LOUIS PASTEUR (CLP)  
**Congrès Louis Pasteur**  
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Dr Odile VILLARD and Dr Jocelyn WALLER.

**Congress Secretary:** Ms Michèle BACHMANN, Estérina HOFFMANN and  
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Dr Martine BOUVIER-GALLACCHI

# SCIENTIFIC PROGRAMM

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Wednesday 13<sup>th</sup> June

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**14h00-18h00: SATELLITE MEETINGS**

**Salle de Conférence des Instituts de Bactériologie – Parasitologie – Virologie,  
3 rue Koeberlé, Strasbourg, deuxième étage**

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**14h00-16h00:** meeting of the « Bureau » of the French Society of Parasitology (Société Française de Parasitologie)

**16h00-18h00:** meeting of the Centre National de Référence du Paludisme

**17h00:** Start of the registration (hall of the Faculty of Medicine)

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**19h00-20h00: KEYNOTE LECTURE**

**« Petit amphithéâtre » of the Faculty of Medecine**

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**HUNTER Christopher**

*University of Pennsylvania, Philadelphia, USA*

**BALANCING PROTECTIVE AND PATHOLOGICAL IMMUNE RESPONSES**

***20h30: Get together party and Alsatian Wine Tasting at the Art Café of the “Musée d'Art Moderne et Contemporain” of Strasbourg***

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Thursday 14<sup>th</sup> June

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**08h00:** Start of the registration (hall of the Faculty of Medicine)

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**8h30-9h00:** Introduction by the "Directeur Général des Hôpitaux Universitaires de Strasbourg" and the "Vice-President Recherche de l'Université Louis Pasteur"

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**Session 1: CELLULAR BIOLOGY AND IMMUNOLOGY – I**

**9h00-10h30**

Moderators: D. Dobbelaere and M. Thoma

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9h00-9h45

**HEUSSLER Volker**

*Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany*

**PROTECT THEM FIRST TO KILL THEM LATER: HOW *PLASMODIUM*  
EXOERYTHROCYTIC FORMS REGULATE THE SURVIVAL OF THEIR HOST CELLS**

9h45-10h00

HIPPE D., VUTOVA P., HÄCKER G., GROSS U., LÜDER C.G.K.

**Inhibition of host cell apoptosis by *Toxoplasma gondii*: diverse strategies to ensure parasite survival**

10h00-10h15

KULANGARA Caroline, AGAK George, VILLARD Viviane, CORRADIN Giampetro, FELGER Ingrid.

**Evaluation and Characterization of new malaria blood-stage vaccine candidates**

10h15-10h30

DONAGHY L., CABILLIC F., CORLU A., GUGUEN-GUILLOUZO C., GUIGUEN C., GANGNEUX J.P.

***Leishmania donovani* dendritic cell interactions: impact of hepatic microenvironment**

*10h30-11h15: coffee break*

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Thursday 14<sup>th</sup> June

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**Session 2: CELLULAR BIOLOGY AND IMMUNOLOGY – II**

**11h15-13h00**

Moderators: V. Heussler and C. Kulungara

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11h15-12h00

**DOBBELAERE Dirk**

*University of Bern, Switzerland*

**INTERPLAY BETWEEN *THEILERIA* AND HOST CELL**

12h00-12h15

FROLET Cécile, THOMA Martine, BLANDIN Stéphanie, HOFFMANN Jules, LEVASHINA Elena.

**Role of  $\text{I}\kappa\text{B}$ / $\text{NF-}\kappa\text{B}$  signalling pathways in the antiparasitic response of the mosquito *Anopheles gambiae***

12h15-12h30

RUPP Ingrid, KÜHN Andrea, AGARWAL Shruti, PRADEL Gabriele.

**Novel cell-to cell contacts between malaria sexual stages**

12h30-12h45

BEHRENDT Jan Hillern, ZAHNER Horst, HERMOSILLA Carlos, TAUBERT Anja.

**Reactions of cells of the innate immune system (PMN, NK cells, monocytes) against *Eimeria bovis***

12h45-13h00

REMER Katharina A, APETREI Calin, SCHWARZ Tobias, MOLL Heidrun.

**Antigen-pulsed plasmacitoid dendritic cells induce T cell-mediated protection against *Leishmania major* in mice**

*13h00-14h00: lunch*

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Thursday 14<sup>th</sup> June

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**Session 3: CELLULAR AND MOLECULAR PARASITOLOGY – I**

**14h00-15h45**

Moderators: M.-A. Hakimi and S. Stefanic

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14h00-14h45

**SOLDATI Dominique**

*University of Geneva, Switzerland*

**THE GLIDEOSOME: A MACHINERY TO ASSIST THE APICOMPLEXA IN MIGRATION**

14h45-15h00

LUTZ Kathleen, DYACHENKO Viktor, TAUBERT Anja, HERMOSILLA Carlos, BECKMANN Svja, GREVELDING Christoph, ZAHNER Horst.

**Characterization of *Eimeria bovis* microneme 4 protein (EbMIC4)**

15h00-15h15

BLAINEAU Christine, TESSIER Magali, DUBESSAY Pascal, TASSE Lena, CROBU Lucien, BASTIEN Patrick, PAGES Michel.

**Trypanosomatids possess a microtubule-depolymerising kinesin involved in flagellum length control**

15h15-15h30

SCHMID A., SAUVAGE V., ESCOTTE-BINET S., AUBERT D., VILLENA I.

**Identification and characterisation of ABC protein-encoding genes family in *Toxoplasma gondii***

15h30-15h45

SPYCHER Cornelia, RUG Melanie, KLONIS Nectarios, FERGUSON David J., HANSSEN Eric, COWMAN Alan F., TILLEY Leann, BECK Hans-Peter. (SSTMP student's research award 2007).

**Characterization of the novel Maurer's clefts protein MAHRP1 in *Plasmodium falciparum***

*15h45-16h15: coffee break*

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Thursday 14<sup>th</sup> June

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**Session 4: CELLULAR AND MOLECULAR PARASITOLOGY – II**

**16h30-18h00**

Moderators: D. Soldati and A. Schmid

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16h30-17h15

**HAKIMI Mohamed-Ali**

*CNRS-Grenoble, France*

**HISTONE - MEDIATED GENE EXPRESSION IN EUKARYOTIC PARASITES**

17h15-17h30

JAKOBI Vera, STUMM Christoph, PETRY Franz.

**Differential expression of *Cryptosporidium parvum* genes *in vitro* and *in vivo***

17h30-17h45

STEFANIC Sasa, HEHL Adrian B.

**Regulated Export of Cyst Wall Material in *Giardia lamblia* depends on universally conserved factors of the secretory apparatus**

17h45-18h00

STELTER Kathrin, EI-SAYED Najib M., SEEBER Frank.

**Molecular evidence for a plastid in the early dinoflagellate *Perkinsus marinus***

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**18h30-19h30: General assembly meeting of respective societies**

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SFP: *Petit amphithéâtre*

SGTP, SSMTP, SSTMP: *Conférence Room of the Institutes of Bactériology – Parasitology – Virology, 3 rue Koeberlé, 2<sup>nd</sup> floor*

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**20h45: Boat trip from Petite France to European Institutions**

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Friday 15<sup>th</sup> June

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**Session 5: NEW ANALYTICAL TOOLS FOR PARASITIC DISEASES**

**9h00-10h30**

Moderators: S. Croft and S. Sonda

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9h00-9h45

**WASTLING Jonathan**

*University of Liverpool, Great Britain*

**PROTEOMICS FOR ALL - ACCESSIBILITY AND EXPLOITATION OF PROTEOME DATA  
IN PARASITOLOGY RESEARCH**

9h45-10h00

SARIC Jasmina, LI Jia, WANG Yulan, KEISER Jennifer, HOLMES Elaine, UTZINGER Jürg.

**Experimental infection in mice with the intestinal fluke *Echinostoma caproni*. Does  
metabonomics offer a new approach in parasite diagnostic?**

10h00-10h15

LI Jia, UTZINGER Jürg, WANG Yulan, NICHOLSON Jeremy K., WILSON Ian, SINGER Burton H,  
WITTLIN Sergio, HOLMES Elaine.

**A metabolic investigation of *Plasmodium berghei* infection in the mouse**

10h15-10h30

GIANINAZZI Christian, SCHILD Marc, SCHNELL Barbara, MÜLLER Norbert, SCHÜRCH Nadia,  
GOTTSTEIN Bruno.

**Pathogenic free living amoebae: diagnostic tools and research focus**

*10h30-11h00: coffee break*

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**Session 6: MEDICAL PARASITOLOGY AND THERAPY**

**11h00-12h45**

Moderators: J. Wastling and C. Gianinazzi

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11h00-11h45

**CROFT Simon**

*DNDI, Geneva*

**TOWARDS NEW TREATMENTS FOR THE TRYPANOSOMIASES AND THE LEISHMANIASES**

11h45-12h00

CHAPPUIS François.

**Field experience with eflornithine for the treatment of second-stage *T. b. gambiense* human African trypanomiasis**

12h00-12h15

MÜLLER Norbert, STERK Maaike, HEMPHILL Andrew, MÜLLER Joachim.

***In vitro* drug-resistance formation in *Giardia lamblia* is associated with altered surface antigen expression**

12h15-12h30

SONDA S., STEFANIC S. HEHL AB.

**Sphingolipid biosynthesis as a target for chemotherapy against *Giardia lamblia***

12h30-12h45

RAKOTOMANGA Michaëlle, SAINT-PIERRE-CHAZELET Michèle, LOISEAU Philippe.

**Modifications of the lipid metabolism in miltefosine-resistant *Leishmania donovani* promastigotes**

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**POSTER SESSION**

**12h45-14h00**

*And lunch*

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**Session 7: ARTHROPOD VECTORS AND EMERGING  
VECTOR – BORNE DISEASES**

**14h00-15h45**

Moderators: L. Gern and I. Vouldoukis

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14h00-14h45

**GERN Lise**

*University of Neuchatel, Switzerland*

**TICK – BORNE DISEASES**

14h45-15h00

SCHMID Nicole, DEPLAZES Peter, HOBY Stefan, RYSER MARIE-Pierre, EDELHOFER Renate, MATHIS Alexander.

**Epidemiological and molecular genetic investigations of *Babesia divergens* / *B. capreoli*-like parasite findings in free-ranging wild ruminants in eastern Switzerland**

15h00-15h15

BOULANGER Nathalie, MARCHAL Claire, WACHSMANN Dominique, SIBILIA Jean, PIEMONT Yves, JAULHAC Benoit.

**Lyme disease and innate immunity: role of resident cells in the cutaneous inflammation**

15h15-15h30

BOUSSAA Samia, BOUMEZZOUGH Ali, MAHAMDALLIE Shazia, READY Paul, PESSON Bernard.  
**Isoenzyme and mitochondrial DNA characterization of *Phlebotomus perniciosus* morphs in southern Morocco**

15h30-15h45

SCHAFFNER Francis, FLACIO Eleonora, BECKER Norbert, MATHIEU Bruno, JEANNIN Charles, DELATTE H el ene, FONTENILLE Didier, FAILLOUX Anna-Bella, L UTHY Peter, PLUSKOTA Bjoern, DELAUNAY Pascal.

***Aedes albopictus* surveillance and vectorial risk for France, Germany and Switzerland**

*15h45-16h15: coffee break*

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Friday 15<sup>th</sup> June

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**Session 8: CLINICAL SESSION OF TROPICAL MEDICINE AND  
PARASITOLOGY**

**16h30-18h00**

Moderators: M. Gallachi and F. Chapuis

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16h30-16h45

LANDRY Pierre, KETTERER Jean-Paul.

**A worm in the lungs**

16h45-17h00

MICHELET Lorraine, RAKONTONDRAZAKA Mahenintsoa, ANDRIANTSEHENO Marcellin,  
CAROD Jean-François, BOUCHIER Christiane, TALARMIN Antoine, GAY Frédéric.

**Contribution of the molecular biology to the diagnosis and the phylogeny of cysticercosis**

17h00-17h30

BLUM Johannes A, BURRI Christian, HATZ Christoph.

**Sleeping glands and sleeping hearts. The role of endocrine disorders and the heart in sleeping sickness**

17h30-17h45

TAOUFIQ Zacharie, CONTI Marc, TEFIT Maurel, MAZIER Dominique, VOULDOUKIS Iannis.

**Thwarting *Plasmodium falciparum*-induced oxidative stress within endothelial cell: prospects in severe malaria therapy**

17h45-18h00

GUILLOT Jacques, EPE Christian, FISHER Maggie, GENCHI Claudio, MIRO Guadalupe,  
THAMSBORG Stig, Van KNAPEN Franz, DEPLAZES Peter.

**ESCCAP: a consistent approach to the diagnosis and treatment of companion animal parasites in Europe**

**21h00: Gala dinner at "Maison Kammerzell"**

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Saturday 16<sup>th</sup> June

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**Session 9: HUMAN AND ANIMAL HELMINTHS**

**9h00-10h45**

Moderators: K. Brehm and H. Babba

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9h00-9h45 : **BOIREAU Pascal**, *ENVA, Paris, France* : **THE DEVELOPMENT OF THE TRICHINELLA NURSE CELL AND THE ROLE OF STAGE – SPECIFIC PROTEINS**

9h45-10h00

DUPOUY-CAMET Jean, De BRUYNE Aymeric, ANCELLE Thierry.

**Human trichinellosis acquired from wild boar meat: a continuing parasitic risk in France**

10h00-10h15

JACKSON Yves, PASTORE Roberta, SUDRE Philippe, LOUTAN Louis, CHAPPUIS François.

**Outbreak of *Diphyllobothrium latum* following a wedding dinner in Geneva, Switzerland**

10h15-10h30

WICHT Barbara, de MARVAL Floriane, GOTTSTEIN Bruno, PEDUZZI Raffaele.

**Evidence of imported diphyllbothriasis (*Diphyllobothrium nihonkaiense* and *D. dendriticum*) in Switzerland**

10h30-10h45

OUDNI-M'RAD Myriam, CABARET Jacques, M'RAD Selim, MEKKI Mongi, BELGUITH Mohsen., SAYADI Taoufik, NOURI Abdellatif, AZAIEZ Rached, MEZHOUH Habib, BABBA Hamouda.

**Tunisian *Echinococcus granulosus* sheep strain in three hosts (sheep, cattle and man) : same or several ?**

*10h45-11h15: coffee break*

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**Session 10: ECHINOCOCCOSIS**

**11h15-13h00**

**Sponsored by the Paul Ehrlich Gessellschaft for Chemotherapy**

Moderators: P. Boireau and F. de Marval

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11h15-12h00: **BREHM Klaus**, *University of Würzburg, Germany*: **INTIMATE TALKS ON THE MOLECULAR LEVEL: HOW PARASITIC HELMINTHS AND THEIR HOSTS DO IT?**

12h00-12h15

SPICHER Martin, ARUNASALAM Naguleswaran, HEMPHILL Andrew.

***In vitro* and *in vivo* activities of the anti-cancer agent 2-methoxyestradiol (2ME2), either alone or in combination with albendazole, against *Echinococcus multilocularis* metacestodes**

12h15-12h30

MEJRI Naceur, GOTTSTEIN Bruno.

**Identification of an *Echinococcus multilocularis* cysteine protease that digests eotaxin, a CC pro-inflammatory chemokine**

12h30-12h45

BEN NOUIR Nadia, NAGULESWARAN Arunasalam, NUNEZ Sandra, GIANINAZZI Christian, HEMPHILL Andrew, MÜLLER Norbert, NOURI Abdellatif, BABBA Hamouda, GOTTSTEIN Bruno.

**Cloning and expression of a cDNA encoding the P29 protein with potential usefulness in serologic follow-up of human cystic echinococcosis**

12h45-13h00

KNAPP Jenny, SIMONNET Christine, SUDRE Bertrand, CHIRICA Mircea, PELLEGRIN Carole, CASTAING Denis, BART Jean-Mathieu, MILLON Laurence, GRENOUILLET Frederic, BOTTEREL Françoise, PIARROUX Renaud.

**Echinococcosis due to *Echinococcus vogeli* in a jaguar hunter: diagnosis confirmation by molecular identification**



# POSTERS PRESENTATIONS

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## **P1 - MALARIA, OVERCOMING THE IMMUNOLOGICAL GAP ?**

ABDELRAHMAN Tamer<sup>1</sup>, DODERER Cécile<sup>1</sup>, SENEGAS Alexandre<sup>1</sup>, STEINMETZ Thomas<sup>1</sup>, GUNTZ Philippe<sup>2</sup>, CAZENAVE Jean-Pierre<sup>2</sup>, AKADDAR Aziza<sup>1</sup>, DAHAN Rachel<sup>1</sup>, BOMBARD Stéphane<sup>3</sup>, FILISSETTI Denis<sup>1</sup>, and CANDOLFI Ermanno<sup>1</sup>.

## **P2 - BIOLOGICAL AND BIOPHYSICAL ANALYSIS OF CATESTATIN A NOVEL NATURAL ANTIMALARIAL PEPTIDE DERIVED FROM CHROMOGRANIN A.**

AKADDAR Aziza<sup>1</sup>, SUGAWARA Masae<sup>4</sup>, DODERER Cécile<sup>1</sup>, MAHATA Sushil<sup>2</sup>, AUNIS Dominique<sup>3</sup>, BECHINGER Burkhard<sup>4</sup>, METZ-BOUTIGUE Marie-Hélène<sup>3</sup> \* and CANDOLFI Ermanno<sup>1</sup>\*<sup>1</sup>

## **P3 - TOXOPLASMA GONDII TRIGGERS SECRETION OF INTERLEUKIN-12 BUT LOW LEVEL OF INTERLEUKIN-10 FROM THE THP-1 HUMAN MONOCYtic CELL LINE.**

ALDEBERT Delphine<sup>a</sup>, DURAND François<sup>a</sup>, MERCIER<sup>a</sup>, Corinne, BRENIER-PINCHART Marie-Pierre<sup>a</sup>, CESBRON-DELAUW Marie-France<sup>a</sup>, PELLOUX Hervé<sup>a</sup>

## **P4 - IS DEMODEX SP CAN BE PLAY A ROLE IN GENESIS OF CHRONIC BLEPHARITIS ?**

ANANE Sonia<sup>1</sup>, ANANE-TOUZRI Raja<sup>2</sup>, BELHDAJ Slaheddine<sup>1</sup>, MALOUCHE Nedja<sup>3</sup>, EL AICH Fatma<sup>4</sup>, BELTAIEF Omar<sup>2</sup>, ZHIQUA Raja<sup>2</sup>, KAOUECH Emira<sup>1</sup>, JEDDI Amel<sup>3</sup>, MEDDEB-OUERTANI Amel<sup>2</sup>, KALLEL Kalthoum<sup>1</sup>, CHAKER Emna<sup>1</sup>

## **P5 - ISOENZYME CHARACTERIZATION OF PHLEBOTOMUS PAPATASI (DIPTERA, PSYCHODIDAE) FROM MARRAKESH MOROCCO.**

BOUSSAA Samia<sup>1,2</sup>, PERROTEY Sylvie<sup>2</sup>, BOUMEZZOUGH Ali<sup>1</sup>, HARRAK Rajae<sup>3</sup>, HILALI Soumyia<sup>3</sup> and PESSON Bernard<sup>2</sup>

## **P6 - THE ACTIVITY OF NITRO- AND BROMO-THIAZOLYL-SALICYLAMIDE COMPOUNDS (THIAZOLIDES) AGAINST BESNOITIA BESNOITI INFECTION IN VERO CELLS.**

CORTES H. C. E.<sup>1\*</sup>, MUELLER N.<sup>2</sup>, ESPOSITO M.<sup>2</sup>, LEITAO A<sup>3</sup>, NAGULESWARAN A.<sup>2</sup> and HEMPHILL A.<sup>2\*</sup>

## **P7 - POTENTIAL OF DIRECT RAPID HISTOCHEMICAL RABIES DETECTION FOR RABIES DIAGNOSIS IN DEVELOPING COUNTRIES.**

DÜRR Salome<sup>1</sup>, MINDEKEM Rolande<sup>2</sup>, NAISSENGAR Service<sup>3</sup>, NIEZGODA Michael<sup>4</sup>, ZINSSTAG Jakob<sup>1</sup>

## **P8 - ANALYSIS OF PLASMODIUM FALCIPARUM VAR GENE REPERTOIRE EXPRESSED IN CHILDREN FROM PAPUA NEW GUINEA.**

FALK Nicole, KÄSTLI Mirjam, QI WEIHONG and BECK Hans-Peter

## **P9 - MOLECULAR MECHANISMS OF TEP1-DEPENDENT PARASITE KILLING IN ANOPHELINE MOSQUITOES.**

FRAITURE Malou, WYDER Stefan, BLANDIN Stéphanie, SHIAO Shin-Hong, TROXLER Laurent, IRVING Phil, LEVASHINA Elena

## **P10 - ANALYSIS OF THE B-TUBULIN GENE FROM VITTAFORMA CORNEAE SUGGESTS BENZIMIDAZOLE RESITANCE.**

FRANZEN Caspar, SCHÖLMERICH Jürgen, SALZBERGER Bernd

## **P11 - IDENTIFICATION AND SUBCELLULAR LOCALIZATION OF NOVEL PLASMODIAL MEMBRANE PROTEINS.**

FRITSCH Jürgen<sup>1</sup>, KRAUSE Eberhard<sup>2</sup>, SCHÜMANN Michael<sup>2</sup>, LEIPPE Matthias<sup>1</sup>, GELHAUS Christoph<sup>1</sup>,

**P12 - FUNCTIONAL CHARACTERIZATION OF *PLASMODIUM* ACTIN CAPPING PROTEIN.**  
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LAHMAR Ibtissem<sup>1,3</sup>, ABOU-BACAR Ahmed<sup>1</sup>, BABBA Hamouda<sup>3</sup>, SCHOLLER-GUINARD Marie<sup>1</sup>, BENYAHIA Salim<sup>4</sup>, KHAIRALLAH Moncef<sup>4</sup>, SPEEG-SCHATZ Claude<sup>5</sup>, BOURSIER Tristan<sup>5</sup>, GARWEG Justus<sup>2</sup>, and CANDOLFI Ermanno<sup>1</sup>

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LAHMAR Ibtissem<sup>1,3</sup>, SCHOLLER-GUINARD Marie<sup>1</sup>, MARCELLIN Luc<sup>2</sup>, ROUX Michel<sup>4</sup>, MOUSLI Marc<sup>1</sup>, BABBA Hamouda<sup>3</sup>, and CANDOLFI Ermanno<sup>1</sup>

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LIST Claudia<sup>1</sup>, MÜLLER Norbert<sup>2</sup>, FELGER Ingrid<sup>1</sup>

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MICHEL Chloé<sup>1</sup>, MARCHAL Claire<sup>1</sup>, PERROTEY Sylvie<sup>1</sup>, WACHSMANN Dominique<sup>1</sup>, SIBILIA Jean<sup>2</sup>, PIEMONT Yves<sup>2</sup>, JAUHAC Benoit<sup>2</sup>, BOULANGER Nathalie<sup>1</sup>

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MORF Laura<sup>1</sup>, KULANGARA Caroline<sup>2</sup>, REGÖS Attila<sup>3</sup>, STEFANIC Sasa<sup>1</sup>, SONDA Sabrina<sup>1</sup> and HEHL Adrian B.<sup>1</sup>

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M'RAD Selim<sup>a</sup>, OUJNI-M'RAD Myriam<sup>a</sup>, FILISSETTI Denis<sup>b</sup>, MEKKI Mongi<sup>c</sup>, BELGUIITH Mohsen<sup>c</sup>, NOURI Abdellatif<sup>c</sup>, CANDOLFI Ermanno<sup>b</sup>, AZAIÉZ Rached<sup>a</sup>, MEZHOUH Habib<sup>a</sup>, BABBA Hamouda<sup>a</sup>

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NSANZABANA Christian<sup>1,2</sup>, CRAMERI Andreas<sup>1</sup>, TANNER Marcel<sup>1</sup>, BETSCHART Bruno<sup>2</sup>, GENTON Blaise<sup>1</sup> and BECK Hans-Peter<sup>1</sup>

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OUJNI-M'RAD Myriam<sup>a</sup>, M'RAD Selim<sup>a</sup>, MEKKI Mongi<sup>b</sup>, BELGUIITH Mohsen<sup>b</sup>, SAYADI Taoufik<sup>c</sup>, PRATLONG Francine<sup>d</sup>, CABARET Jacques<sup>e</sup>, NOURI Abdellatif<sup>b</sup>, AZAIÉZ Rached<sup>a</sup>, MEZHOUH Habib<sup>a</sup>, BABBA Hamouda<sup>a</sup>

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PACHLATKO Esther, MÜLLER Anouk, BECK Hans-Peter

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PERVIEUX Lynda<sup>a</sup>, COURTIOUX Bertrand<sup>a</sup>, VATUNGAA Gedeao<sup>b</sup>, JOSENANDOB Theophile, JAUBERTEAU-MARCHAN Marie-Odile<sup>c</sup>, BOUTEILLE Bernard<sup>a</sup>, BISSER Sylvie<sup>a,d\*</sup>

**P34 - IDO AND INOS EXPRESSION IN MOUSE PLACENTA FOLLOWING *TOXOPLASMA GONDII* INFECTION.**

PFAFF Alexander W<sup>a</sup>, MOUSLI Marc<sup>a</sup>, SÉNÉGAS Alexandre<sup>a</sup>, MARCELLIN Luc<sup>b</sup>, TAKIKAWA Osamu<sup>c</sup>, KLEIN Jean-Paul<sup>a</sup>, CANDOLFI Ermanno<sup>a</sup>

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RUSCH Sebastian and BECK Hans-Peter

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SCHAUMBURG Frieder<sup>1</sup>, ENGLERT Nadine<sup>2</sup>, HINTZ Martin<sup>2</sup>, HIPPE Diana<sup>1</sup>, GROSS Uwe<sup>1</sup>, JOMAA Hassan<sup>2</sup>, and LÜDER Carsten G.K.<sup>1</sup>

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SCHEID Patrick, ZÖLLER Lothar, ROLF Michel

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SCHÖPFLIN Sonja<sup>1</sup>, MÜLLER Ivo<sup>2</sup>, FELGER Ingrid<sup>1</sup>

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SENEGAS A., VILLARD O., MARCELLIN L., STEINMETZ T., PAFF A.W., MOUSLI M., KLEIN J.P. and CANDOLFI E.

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STROHBUSCH Maria<sup>1</sup>, MÜLLER Norbert<sup>1</sup>, HEMPHILL Andrew<sup>1</sup>, GREIF Gisela<sup>2</sup>, GOTTSTEIN Bruno<sup>1</sup>

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VOULDOUKIS Ioannis<sup>1</sup>, SVIGAS Thomas<sup>2</sup>, TSELIOS Ioannis<sup>3</sup>, TSOKATARIDIS Yiannis<sup>4</sup>, TAOUFIQ Zacharie<sup>1</sup>, TEFIT Maurel<sup>1</sup>, MAZIER Dominique<sup>1</sup>, CONTI Marc<sup>1</sup>.

**P46 - MONITORING AND MOLECULAR CHARACTERIZATION OF *DIPHYLLOBOTHRIUM* SPP. IN THE SUBALPINE LAKE REGION.**

WICHT Barbara<sup>1</sup>, RUGGERI N.<sup>1</sup>, DE MARVAL F.<sup>2</sup>, RICCARDI N.<sup>3</sup>, TONOLLA M.<sup>1</sup>, DEMARTA A.<sup>1</sup>, PEDUZZI R.<sup>1</sup>