Mon, Jun 25, 2018

08:45-09:00Opening Session

Plenary Hall
08:45-09:00
Greetings by:

Professor Asher Cohen, President of the Hebrew University

Professor Daniel Mandler, Conference Chair

09:00-10:00Plenary Lecture

Plenary Hall
09:00-10:00

ADAPTABLE SYNTHETIC POLYMERS AS PROTEIN AND PEPTIDE AFFINITY LIGANDS. AN ALTERNATIVE TO THE LOCK AND KEY PARADIGM

Kenneth Shea

Department of Chemistry, University of California, Irvine, USA

10:00-11:00Session 1

Plenary Hall
10:00-10:20

A HYBRID OF APTAMER-MOLECULARLY IMPRINTED POLYMER FOR HIGH-SPECIFICITY AND HIGH-AFFINITY RECOGNITION TOWARDS TARGET PROTEINS

Wei Li
State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, China
10:20-10:40

APPLICATION OF MOLECULAR IMPRINTING FOR SURFACE MAPPING

Elena Piletska
Department of Chemistry, University of Leicester, UK
10:40-11:00

INTEGRATION OF SIGNAL TRANSDUCTION INTO MOLECULARLY IMPRINTED POLYMERS FOR OPTICAL SENSING

Lei Ye
Division of Pure and Applied Biochemistry, Lund University, Sweden

11:00-11:30Coffee Break

Plenary Hall

11:30-13:00Session 2

Plenary Hall
11:30-12:00

IMPRINTED NANOPARTICLE MATRICES ON AU SURFACES FOR THE ENHANCED AND SELECTIVE DETECTION OF ANALYTES

Itamar Willner
Institute of Chemistry, The Hebrew University of Jerusalem, Israel
12:00-12:20

MOLECULAR IMPRINTING OF A HYDROPHYLIC BETA-BLOCKER, ATENOLOL, FOR CHIRAL SENSING AND SEPARATION: BETWEEN FAILURE AND SUCCESS

Ede Bodoki
Analytical Chemistry, Iuliu Hatieganu University of Medicine and Pharmacy, Romania
11:30-11:30

CORE-SHELL NANOPARTICLES FOR GAS PHASE DETECTION BASED ON SILVER NANOSPHERES COATED WITH A THIN MOLECULARLY IMPRINTED POLYMER ADSORBED ON A CHEMIRESISTOR

Tehila Shahar
Department of Chemistry, The Hebrew University of Jerusalem, Israel
12:40-13:00

DEVELOPMENTS TOWARDS BIOCOMPATIBLE DEGRADABLE MOLECULARLY IMPRINTED POLYMERS BASED ON POLY(ORGANO)PHOSPHAZENES

Oliver Brueggemann
Institute of Polymer Chemistry, Johannes Kepler University, Linz, Austria

13:00-14:30Lunch and Poster Session
Plenary Hall
14:30-16:10Session 3
Plenary Hall
14:30-15:00

DESIGN OF HIGHLY POTENT IMPRINTED ANION RECEPTORS FOR SENSING AND HIGH THROUGHPUT OMICS

Borje Sellergren
Biofilms Research Center for Biointerfaces, Malmö University, Sweden
15:00-15:30

THE FINAL FRONTIERS IN MODELING AND DESIGNING MOLECULARLY IMPRINTED POLYMERS

Boris Mizaikoff
Institute of Analytical and Bioanalytical Chemistry, Ulm University, Germany
15:30-15:50

MOLECULARLY IMPRINTED NANOPARTICLES FOR INHIBITING RIBONUCLEASE IN REVERSE TRANSCRIPTASE POLYMERASE CHAIN REACTION

Xiaotong Feng
Department of Micro- and Nanotechnology, Technical University of Denmark, Denmark
15:50-16:10

MOLECULARLY IMPRINTED SUPER-APTAMER HYDROGELS FOR RNA AND DNA BIOSENSORS

David Spivak
Department of Chemistry, Louisiana State University, USA

16:10-16:30Coffee Break
Plenary Hall
16:30-17:50Session 4
Plenary Hall
16:30-16:50

IMPROVEMENT FOR CONTROL THE STOICHIOMETRY OF TEMPLATE ION OR MOLECULE/LIGAND COMPLEXES IN SYNTHESIS OF ION AND MOLECULAR IMPRINTED POLYMERS

Katri Laatikainen
Laboratory of Chemical Metrology, Lappeenranta University of Technology, Finland
16:50-17:10

UNDERSTANDING NANOSCALE POROSITY IN MOLECULARLY IMPRINTED POLYMERS VIA 3D FIB/SEM TOMOGRAPHY

Christine Kranz
Institute of Analytical and Bioanalytical Chemistry, Ulm University, Germany
17:10-17:30

INVESTIGATING THE SELF-ASSOCIATION PROCESS OF TEMPLATE MOLECULES USING A HIGH-LEVEL COMPUTATIONAL APPROACH, THE CASE OF CAFFEINE.

Luca Redivo
School of Biological and Chemical Sciences, Queen Mary University of London, UK

Tue, Jun 26, 2018

09:00-10:00Plenary 2

Plenary Hall
09:00-10:00

CAN WE DETECT EXOSOMES USING MIPs?

Toshifumi Takeuchi
Graduate School of Engineering, Kobe University, Japan

10:00-11:00Session 5

Plenary Hall
10:00-10:20

A L-PROLINE BASED THERMORESPONIVE AND pH-SWITCHABLE NANOGEL AS DRUG DELIVERY VEHICLE

Ana Maria Castilla

Chemistry and Biochemistry Department, Queen Mary University of London, UK
10:20-10:40

DEVELOPMENT OF MIP SENSORS FOR ANTIBIOTICS

Akinrinade George Ayankojo
Department of Materials and Environmental Technology, Tallinn University of Technology, Estonia
10:40-11:00

DETERMINATION OF SOME FOOD CARCINOGENS USING CHEMICAL SENSORS WITH MOLECULARLY IMPRINTED POLYMER RECOGNITION FILMS

Wlodzimierz Kutner[1,2]
[1]*Department of Physical Chemistry of Supramolecular Complexes, Institute of Physical Chemistry, Polish Academy of Sciences, Poland*
[2]*Faculty of Mathematics and Natural Sciences. School of Sciences, Cardinal Stefan Wyszynski Uniwersity in Warsaw, Poland*

11:00-11:30Coffee Break
Plenary Hall
11:30-13:10Session 6
Plenary Hall
11:30-12:00

MOLECULARLY IMPRINTED CROSS-LINKED MICELLES FOR SELECTIVE BINDING OF BIOMOLECULES AND BIOMIMETIC CATALYSIS

Yan Zhao
Department of Chemistry, Iowa State University, USA
12:00-12:20

SURFACE IMPRINTED NANOPARTICELS FOR SELECTIVE ENRICHMENT OF DRUGS IN HUMAN SERUM AND URINE

Yulong Jin
Chinese Academy of Sciences, Institute of Chemistry, China
12:20-12:40

TOWARDS THE SYNTHESIS OF MOLECULARLY IMPRINTED POLYMERS BY MAGNETIC FIELD INDUCED POLYMERIZATION

Javier Urraca
Analytical Chemistry, Universidad Complutense de Madrid, Spain
12:40-13:10

DEVELOPMENT OF TWO NEW APPROACHES FOR SURFACE IMPRINTING OF PROTEINS OVER MAGNETIC NANOPARTICLES

Meiping Zhao
College of Chemistry and Molecular Engineering, Peking University, China
13:00-14:30Lunch

Wed, Jun 27, 2018

09:00-10:00Plenary 3
Plenary Hall
09:00-10:00

MIPS FOR PROTEIN CRYSTALS

Naomi Chayen
Computational and Systems Medicine, Imperial College London, UK

10:00-11:00Session 7
Plenary Hall
10:00-10:20

FORMATION OF THE PROTEIN-SURFACE IMPRINTED POLYMERS BY USING LANGMUIR-BLODGETT FILMS OF BIS(BITHIENYL)METHANE DERIVATIVES

Krzysztof Noworyta
Department of Physical Chemistry of Supramolecular Complexes, Institute of Physical Chemistry, Polish Academy of Science, Poland
10:20-10:40

MIP-BINDERS FOR SEQUENCE SPECIFIC PHOSPHOPEPTIDE CAPTURE AND MULTIPLEX STUDIES OF PHOSPHOSIGNALING

Anil Incel
Department of Biomedical Science, Faculty of Health and Society, Malmö University, Sweden
10:40-11:00

MOLECULARLY IMPRINTED NANOGELS ACQUIRING STEALTH PROPERTY VIA REGULATING PROTEIN CORONA USING INTRINSIC SERUM ALBUMIN IN SITU

Yukiya Kitayama
Graduate School of Engineering, Kobe University, Japan

11:00-11:30Coffee Break
Plenary Hall

11:30-13:00Session 8
Plenary Hall
11:30-12:00

IMPRINTING STRUCTURED PEPTIDES: A STEP TOWARD FOLDING ASSISTANCE?

Alessandra Maria Bossi
Department of Biotechnology, University of Verona, Italy
12:00-12:20

SOLID-PHASE SYNTHESIS FOR NANO MIPS COMPATIBLE WITH AQUEOUS ENVIRONMENT: SYNTHETIC ANTIBODY MIMICS FOR CELL TARGETING AND IMAGING

Paulina Ximena Medina Rangel
CNRS Enzyme and Cell Engineering Laboratory, Sorbonne Universités, Universite de Technologie de Compiegne, France
12:20-12:40

A TECHNIQUE OF DRUG DESIGNING BY MOLECULAR IMPRINTING IN WATER-ETHYL ALCOHOL SUPRA-MOLECULAR MATRIX USING BIOLOGICAL LIGANDS, PATHOGENIC MOLECULES OR PROTEIN INHIBITOR DRUGS AS TEMPLATES

Channdran K C
Chairman, International Center for Learning and Research in Molecular Imprinted Drugs, India
12:40-13:00

EFFECT OF SURFACE-ACTIVE AGENTS ON THE BINDING PROPERTIES OF MOLECULARLY IMPRINTED POLYMERS

Cristina Giovannoli
Department of Chemistry, University of Torino, Italy

13:00-14:30Lunch and Poster Session
Plenary Hall

14:30-16:10Session 9
Plenary Hall
14:30-15:00

SURFACE MIP OF BIOSPECIES: POSSIBLE ASSAY FORMATS IN HEALTCARE

Peter Lieberzeit
Department of Physical Chemistry, University of Vienna, Faculty for Chemistry, Austria
15:00-15:30

NEW APPROACHES FOR THE DEVELOPMENT OF MOLECULARLY IMPRINTED POLYMERS FOR PROTEINS EXTRACTION AND OPTICAL SENSOR DEVELOPMENT

Maria C Moreno Bondi
Department of Analytical Chemistry, U. Complutense, CEI-Moncloa, 28040 Madrid, Spain
15:30-15:50

DETECTION OF GOLD NANOPARTICLES BY ELECTROCHEMICALLY DEPOSITED SOL-GEL BASED NANOPARTICLES IMPRINTED MATRICES

Netta Bruchiel-Spanier
Chemistry, Hebrew university, Israel
15:50-16:10

HIGH YIELD SYNTHESIS OF PROTEIN IMPRINTED NANOGELS PREPARED AND PROBED USING MAGNETIC TEMPLATES

Rashmi Mahajan
Department of Chemistry and Biomedical Sciences, linnaeus university, Sweden

Thu, Jun 28, 2018

09:00-11:00Session 10

Plenary Hall
09:00-09:30

MOLECULARLY IMPRINTED POLYMER NANOCOMPOSITES AS SYNTHETIC ANTIBODY MIMICS FOR BIOMEDICINE

Karsten Haupt
Enzyme and Cell Engineering, Compiegne University of Technology, France
09:30-10:00

SYNTHESIS OF MIPs FOR CANCER DIAGNOSIS AND MANAGEMENT

Peter A. G. Cormack
WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, UK
10:00-10:20

ORGANIC-INORGANIC NANOPARTICLES AS INTERNAL LIGHT SOURCES FOR LOCALIZED PHOTOPOLYMERIZATION OF MIP SHELLS: APPLICATION FOR CELL TARGETING AND IMAGING

Bilal Demir
CNRS Enzyme and Cell Engineering Laboratory, Université de Technologie de Compiègne, Sorbonne Universités, France
10:20-10:40

MOLECULAR IMPRINTING SANS FUNCTIONAL MONOMER

Clovia Holdsworth
Department of Chemistry, University of Newcastle, Australia
10:40-11:00

CAN A MIP BE SELECTIVE TOWARDS THE PRESENCE AND POSITION OF A SINGLE METHYL GROUP? METHYLXANTHINES AS TEMPLATES FOR IMPRINTING.

Rozalia-Maria Anastasiadi
School of Biological and Chemical Sciences, Queen Mary University of London, UK

11:00-11:30Coffee Break
Plenary Hall

11:30-13:00Session 11
Plenary Hall
11:30-12:00

MOLECULAR IMPRINTING OF BIOMOLECULES WITHIN NANO PORES

Zhen Liu
School of Chemistry and Chemical Engineering, Nanjing University, China
12:00-12:20

COMPUTATIONAL PREDICTION OF TEMPLATE DISCRIMINATION PROPERTIES IN MOLECULARLY IMPRINTED POLYMERS

Gustaf Olsson
Department of Chemistry and Biomedical Sciences, Linnaeus University, Sweden
12:20-12:40

COMPUTATIONALLY DESIGNED SURFACE CUM HOLLOW ACRYLAMIDE GRAFTED CHITOSAN BASED DUAL IMPRINTED POLYMER FOR ORGANIC AND INORGANIC POLLUTANT

Anupama Kumar
Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur-440010, India
12:40-13:00

A RATIONAL APPROACH TO MOLECULARLY IMPRINTED POLYMERS DESIGN: EXPERIMENT AND COMPUTATION

R. Gutierrez-Climente
CNRS Enzyme and Cell Engineering Laboratory, Sorbonne Universités, Université de Technologie de Compiègne, France

13:00-14:30Lunch and Poster Session
Plenary Hall

14:30-16:00Session 12
Plenary Hall
14:30-15:00

HIERARCHICAL IMPRINTED POLYMER ARCHITECTURES

Ian Nicholls
Department of Chemistry & Biomedical Sciences, Linnaeus University, Sweden
15:00-15:30

MIP NANOPARTICLES IN DIAGNOSTICS AND LIFE SCIENCE APPLICATIONS

Sergey Piletsky
Department of Chemistry, Leicester Biotechnology Group, UK
15:30-16:00

NEW APPROACHES FOR THE FACILE AND EFFICIENT PREARATION OF ADVANCED FUNCTIONAL HYDROPHILIC MOLECULARLY IMPRINTED POLYMER NANOPARTICLES

Huiqi Zhang
College of Chemistry, Nankai University, China

16:00-16:30Coffee Break

Plenary Hall

17:00-18:00Panel and Closing Session