Name	Can provide		Can screen on				
	Venom	**Peptides**	**Species**	**Organism**	**Cells (read out) Receptors**	**Purpose**	**Other comments**
Sebastien Dutertre	Yes, crude venoms and fractions	Yes, natural and synthetic peptides	Conus sp, some local spiders and scorpions			Novel pharmacological tools, therapeutics or agrochemicals	We also do proteomics and transcriptomics of venoms/venom glands
Annette Nicke					Xenopus oocytes (TEVC) nAChRs (rat and some human) P2X (rat and some human) Many other ion channels,Transporters, GPCRs can be expressed if cDNA can be provided	Mutagenesis, Structure-activity, ligand optimization	
Markus Muttenthaler	Cone snail	Yes, synthetic peptides	Anything that has a defined sequence		Incucyte Zoom (wound healing, proliferation, migration, apoptosis) Access to FLIPR for calcium imaging	SAR studies, therapeutic lead discovery, pharmacological probe development	We can modify toxins chemically, are experts in tracer design (put fluorophores and other reporter tags on it), Med Chem for stability, multivalent ligand design, GPCR pharmacology, do gut stability assays, etc.
Nicolas Gilles		Venomics bank			binding tests on GPCR	Identification of therapeutic targets	

					Iodination of peptides/toxins	for Drug development	
Michelle Yap	Venom fractions	Synthetic peptides		C. elegans, zebrafish (facility shut down at the moment)	Human immortalized keratinocytes. Working on TNF receptor 1	Immunogenicity and immunoinformatics. Cell death signaling pathways. Novel drugs for cancer and neurodegenerative diseases.	Proteomics. Can do in silico modelling and docking. Protein interactome.
Javier Sanchez-Cespedes	No	No	---	Infectious diseases: Adenovirus, cytomegalovirus, influenza; multiresistant gram negative bacteria	A549, HAK293, HFF cell lines	Identification of potential antimicrobial agents	Antibacterial and antiviral in vivo evaluations of the selected molecules are also availabe
Yiannis Sarigiannis	Yes, crude venoms and fractions	Yes, natural and synthetic peptides	Mesobuthus Cyprius, Buthus Kunti	NO	NO	Novel Therapeutics, Cosmetics, Biomaterials	We are able to design and synthesize modified natural peptides or libraries
Rui Vitorino			Vipera aspis			Vipera aspis venom characterization	We do proteomics
Stano Pekar, Ondrej Michalek	Crude venom		Several spider species	Insects and spiders		agrochemicals	proteomics and transcriptomics of venoms/venom glands
Blerina Vrenozi			Mainly spiders, but also scorpions, insects and snakes			Identification, distribution, ecology of the species	My expertise area is in Biological sciences: Zoology, including animal behaviour. Used semiochemicals against pest species.
Dimitris Beis	-	-	-	Zebrafish embryos. In vivo phenotypic		Novel bioactive compounds.	For interesting extracts, we could do

				screens. High-trhoughput for up to 96 hours post fertilization.		Bioactivity-driven fractionation.	transcriptomic analyses (of treated embryos) to identify targets / signalling pathways.
Christian Gruber	Plant extracts containing plant toxins	Plant-derived ICK/CCK motif peptides	plants	Primary immune cells, autoimmune disorders	Many GPCRs, including OXTR/AVPR, cannabinoid Rs, opioid Rs, CCK1+2, adenosine Rs, AT1R, urotensin R, orexin Rs; Covering: binding, functional second messenger, arrestin recruitment, internalization; Access to evolutionary related insect receptors	Pharmacology, Ligand development; endogenous/evolutionary function	Peptidomics; genome mining of Cys-rich peptides
Goran Gajski (Croatia)	Yes, bee venom either purchased (Sigma) or collected by the local beekeepers (lyophilized)	Yes, melittin from bee venom (Sigma)	Honeybee (*Apis mellifera*)		Primary human blood cells (peripheral blood leukocytes)	Cytotoxicity, genotoxicity	Used bee venom and its components for anticancer research *in vitro*
Simona Saponara					Vascular and cardiac Ca^{2+} and K^{+} channels (freshly isolated rat cells and cell lines, including hERG-HEK cells) Langendorff isolated rat heart	Novel pharmacological tools and therapeutic agents. Cardiovascular toxicity	Manual patch-clamp electrophisiology In vitro isolated organs

					Cell-based assays (viability, cell-cycle, apoptosis, etc)		
Fabio Fusi					Vascular and cardiac Ca^{2+} and K^{+} channels (freshly isolated rat cells and cell lines, including hERG-HEK cells) Rat isolated organs (vessels, gastrointestinal preparations, etc)	Novel pharmacological tools and therapeutic agents. Cardiovascular toxicity	Manual patch-clamp electrophisiology In vitro isolated organs
Tim Hucho	No	No	N.A.	Mouse, rat, human	Mouse/rat primary nociceptors, Human induced pluripotent stem cell (hiPSC) derived nociceptors Readouts: High Content Screening microscopy especially of intracellular signaling components (phenotypic screening)	Screening for novel pain/nociception-modulating toxins and the identification of their mechanism	96/384 well plate format
Frank Bosmans	No	No		Mouse, Xenopus	Xenopus Mammalian cells Nav channels, Kv channels, GABAa receptors	Novel tools, therapeutics, agrochemicals, structure-function studies	
Aleksandra Bocian	Venom fractions		Snakes, mostly cobras			determination of venom composition,	We carry out proteomic studies

						venom-antivenom interactions, testing the properties of venom components	based on mass spectrometry and enzyme activity studies
Kyriakos Spanoudes	N/A	N/A		Mice Rabbits Canines Felines Equines	Cell Culture facility available.		Ability to execute animal studies
Igor Križaj & Adrijana Leonardi & Jernej Šribar (jernej.sribar @ijs.si) & Adrijan Ivanušec (adrijan.ivanusec@ijs.si) & Tadeja Bele (tadeja.bele@ijs.si)	Yes, crude venom and fractions	Yes, natural & recombinant	*Vipera a. ammodytes*		Several sPLA2 receptors (CaM, R25, M-type sPLA2R).	Characterization of novel targets for sPLA2s, snaclecs and CRISPs to define original pharmacological tools or therapeutics.	We also perform proteomics of venoms.
Izhar Karbat	No	Yes, by Heterologous expression	Scorpions, Cone snails		Xenopus oocytes, HEK cells. K_{ir}, Na_v and K_v channels.	Venom components as tools in basic ion channel research	Computational tools for the study of toxin-channel interactions; Insect-specific venom components.
Maria Ikonomopoulou					Screening and characterisation using immortalised cell lines	Anticancer (mainly melanoma) and anti-aging (senolytic) properties	
Alexander Vassilevski	Crude venoms and fractions	Natural and synthetic or recombinant	70 species of spiders, scorpions, and snakes (mainly Central Asian)	Drosophila (flies), Sarcophaga (maggots), mice, and rats		Pharmacological tools and drug hits	We do all types of protein chemistry and production of recombinant peptides, as well as

							computer modeling of complexes; and investigate structure-function relationships
Ewa Ciszkowicz				Different types of mammalian cells: - normal (BJ, V79-4) and cancer (DU145, PC3) fibroblast cell lines, - breast cancer (MDA-MB-231MCF-7, 4T1, NIH/3T3). Bacteria: *Staphylococcus aureus* (certified and clinical), *S. epidermidis* (certified and clinical), *Escherichia coli* (certified), *Pseudomonas aeruginosa* (certified)		Cytotoxicity, novel pharmacological molecules.	We are starting with transfection studies in order to follow the drug cellular pathways. We can evaluate specific gene expression with qPCR analysis.
Figen Caliskan	Yes, crude venoms and their HPLC fractions	Yes, natural peptides	Scorpion (Androctonus crassicauda,Mesobuthus gibbosus,Leiurus abdullah bayramii, Buthacus macrocentrus, Hottentotta saulcy, Iurus kinzelbachi) And Apis mellifera anatoliaca			To find novel pharmacological tools/therapeutics and also to use as a antijen for obtain a next generation antivenoms	Just need legal permission from Turkish autority before studies.

Denis Servent		Synthetic peptides	Snakes, spiders, cones		Sodium channels (Xenopus oocytes, TEVC, patch-clamp on DRG) nAChRs (Xenopus oocytes, TEVC. Ex-vivo neuromuscular preparation and in-vivo:electromyogram) and radioactive binding	Novel pharmacological tools for diagnostic and therapeutic Structure-activity relationship, ligand optimization	
Philippos Demetriou & Myrianthi Frangi				Morphi A & B Design L.L.C		Business Consulting & Training.	Business Consultants of Medvenom LTD Cyprus. Our company had prepared business plan, ISO standards, protocols all the applications regarding the licenses and approvals needed in order Veterinary Services – Approoval of the processing facilities, approoval of processing plant for animal by-products, Animal well-fare manual, Application for animal experinments. Enrinonmental Services – application for captivity of cyprus

							endemic species approval. Pharmaceutical Services – application for importing anti-venom serums for various species that Medevenom Ltd manages. Environmental Services – preparing the necessary procedures for NAGOYA protocol. We also prepare the architecture floor plan since our company specilised in turn-key projects (archotecure and business consulting).
Mauro DallaSerra	NO	Yes, synthetic peptides				Structure-Funcion activity on model membrane systems (monolayers, liposomes, planar lipid membranes)	Techniques: fluorescence, electrophysiology (on planar lipid membraes, and on cells), in liquid AFM on supported bilayers
Ivan Koludarov						Structure-functin, novel forms of venom proteins, changes of structure related to venom function (via comparative	I do transcriptomics/genomics and can help with assembly, finding and identification of orthologs/homologs as well as with

						genomcis/proteomics)	analyzing protein sequences for domains and function implication.
Joana Miranda	No	No	Mammalian cells	3D cultures	Most mammalian cell lines (human or animal), stem cells and some primary cells (e.g. hepatocyes) Many other ion channels,Transporters, GPCRs can be expressed if cDNA can be provided	Novel pharmacological tools, toxicology, therapeutics	
Ziad Fajloun	Yes, crude venom and fractions		Montviepra bornmuelleri snake & Apis mellifera syriaca bee			Pharmacological applications	Venoms with antiviral activity and cytotoxicity on cancer cell lines
Maria Klapa	Potentially yes (depending on the quantity), venoms for multi-omic studies			Any organism, at the moment we are interested in snake venom (Vipera and other greek snake species)		Understanding the composition of venom for evolution studies but also to better understand how venom acts on the prey for the identification of bioactive compounds	We do metabolomics on venoms/venom glands
Michel Dugon	Yes, Crude venoms	No	Spiders (local species and some mygalomorph) Scorpions (North African species depending on field work)			Ecology / Evolution / Understanding of envenomations	

			Centipedes (Lithobiomorpha and Scolopendromorpha)				
Serena Leone		Recombinant peptides	Marine species (Cnidaria, molluscs)			Structure-function relationships of protein and peptides from marine organisms	
Fernando Remião	No	No	Mammalian cells	2D cultures	Most mammalian cell lines (human or animal), and some primary cells (e.g. blood-brain-barrier, hepatocyes, cardiomyocytes, intestinal and tubular cells) Many membrane Transporters (e.g. P-glycoprotein), to evaluate substrates, inductors, inhibitors, activators	Novel pharmacological tools, toxicology, therapeutics	We also do toxicokinetic and metabolomics studies
Jan Tytgat					Expression on Xenopus oocytes and TEVC analysis using: - Voltage-gated sodium, potassium, and calcium channels, from mammals (rat, human) and insects	Novel pharmacological, biotechnological and therapeutic tools, as well as novel insecticidal compounds	We also have expertise in carrying out structure-function relationship research

					- GABARs, nACHRs, histamine, bradykinin, cannabinoid and other ligand-gated receptors - Other ion channels can be expressed if cDNA is provided		
Roderich Süßmuth	-	synthetic peptides, heterologous expression and purification		S1 strains	-	drug discovery and development	proteomics, total chemical synthesis
Nasit Igci	YES, lyophilized crude venoms and fractions	YES, natural peptides	Viperids (Macrovipera lebetinus, Montivipera xanthina, Montivipera raddei, M. wagneri, M. bulgardaghica bulgardaghica, M. b. albizona, Vipera ammodytes transcaucasiana, Vipera kaznakovi, V. (berus) barani, V. darevskii, V. anatolica), Elapids (Walterinnesia morgani). These are collected during our filed studies, I will also purchase venom from some other viperids and elapids	Rat, mouse, epileptic rat model (through my collaborators), various microorganisms (through my collaborators)	HUVEC, L929, primary blood cells and platelets, cell-based colorimetric and fluorometric assays, platelet receptors, chick chorioallantoic membrane (CAM) and onplant models for assessing the angiogenesis, Langendorff isolated rat heart (through my collaborators)	Discovery of the novel bioactive peptides/proteins (especially focusing the blood coagulation-aggregation and cardiovascular system), cytotoxicity screening	We also carry out proteomic, infrared spectroscopy and enzyme activity studies on crude venoms and their fractions. And recently have collaborations on screening natural products to assess their potential as APIs to be used in cosmeceuticals.

			for my ongoing projects.				