

identity	<i>H. serbica</i>	<i>H. zikici</i>	<i>H. penella</i>	<i>H. sondereggeri</i>	<i>H. canalensis</i>	<i>H. segurana</i>	<i>H. affinis</i>	<i>H. yerayi</i>	<i>H. rakosy</i>	<i>H. dubia</i>
<i>H. serbica</i>	100	79.6	86.4	84.6	85.5	85.5	85.5	91.7	85.5	90.8
<i>H. zikici</i>		100	80.2	78.7	79.4	79.4	79.4	80.9	82.6	82.6
<i>H. penella</i>			100	92.8	94.7	94.7	94.7	92.2	94.9	94.9
<i>H. sondereggeri</i>				100	95.1	95.1	95.1	89.5	93	93
<i>H. canalensis</i>					100	100	100	90.4	93.9	93.9
<i>H. segurana</i>						100	100	90.4	93.9	93.9
<i>H. affinis</i>							100	90.4	93.9	93.9
<i>H. yerayi</i>								100	95.4	95.4
<i>H. rakosy</i>									100	94.9
<i>H. dubia</i>										100

Correlation of COI sequence identity among 10 *Heterogynis* species according to Emboss needle software [8].

similarity	<i>H. serbica</i>	<i>H. zikici</i>	<i>H. penella</i>	<i>H. sondereggeri</i>	<i>H. canalensis</i>	<i>H. segurana</i>	<i>H. affinis</i>	<i>H. yerayi</i>	<i>H. rakosy</i>	<i>H. dubia</i>
<i>H. serbica</i>	100	80.4	87.7	85.1	86	86	86	92.5	86	90.8
<i>H. zikici</i>		100	81.4	79.1	79.8	79.8	79.8	82.1	82.6	82.6
<i>H. penella</i>			100	94.3	96.2	96.2	96.2	93.6	96.3	96.3
<i>H. sondereggeri</i>				100	96.1	96.1	96.1	90.9	93.5	93.5
<i>H. canalensis</i>					100	99.5	99.5	91.8	94.4	94.4
<i>H. segurana</i>						100	99.5	91.8	94.4	94.4
<i>H. affinis</i>							100	91.8	94.4	94.4
<i>H. yerayi</i>								100	96.3	96.3
<i>H. rakosy</i>									100	96.3
<i>H. dubia</i>										100

Correlation of COI sequence similarity among 10 *Heterogynis* species according to Emboss needle software [8].

COI Sequences among 10 *Heterogynis* species:

>BDE649-20_ *Heterogynis penella*_France (penella)

TLYFIFGAWSGLLGMSLSLLIRAE LNPN SLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWL IPLMLGSPDMAFPRMNNMSFL
LPSSIILLISSMIENG TG TGWTIY PPLSSYFIHSSSTIDLTIFSLHLAGISSILGAINFITTIINMRPKNMSLDQIPLFVWSVGITALLLLSLP
VLGAITMLLTDRLNTSFFDPSGG

>BDE650-20_ *Heterogynis sondereggeri*_Greece (penella)

TLYFIFGAWSGLLGTSLSLLIRAE LNPN SLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWL IPLMLGSPDMAFPRMNNMSFW
MLPSSIILLISSMIENG TG TGWTIY PPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNM LLDQIPLFVWSVGITALLLLS
LPVLGAITMLLTDWNLNT

>BDE651-20_ *Heterogynis canalensis*_France (canelensis)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMSPNQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTLFFDX

>BDE652-20_Heterogynis segurana_Spain (penella)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMSPNQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTLFFDX

>BDE656-20_Heterogynis affinis_Spain (affinis)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMSPNQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTLFFDX

>PHLAH828-12_Heterogynis yerayi_Spain (paradoxa)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSIINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFWL
LPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMLLDQIPLFVWSVGITALLLLSLP
LAGAITMLLTDRNLNTSFFDPAGGGDPILYQHFL

>PHLAH047-12_Heterogynis rakosy_Romania (penella)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMLLDQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTSFFDPTGGGDPX

>LEFIA1167_10_Heterogynis dubia_Slovenia (penella)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMLLDQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTSFFDPTGGGDPX

>Heterogynis_serbica (internal ID 1CCDZAG273, GenBank ID_MW286118; Serbia)

GAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFWLLPPSL
ILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMLLDQIPLFVWSVGITALLLLSLPVL
AITMLLTDRNLNTSFFDPTGGGDPILYQHFWFFGHPEL

>Heterogynis_zikici (BDE648-20, GenbankID, MW128372, Serbia)

TLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITSHAFIMIFFMVMPI MIGGFGNWLIPLMLGSPDMAFPRMNNMSFW
LLPPSLILLISSSMIENG TGTGWTIYPPLSSYIIHSSSTVDLTIFSLHLAGISSILGAINFITTIINMRPKNMLLDQIPLFVWSVGITALLLLSL
PVLAGAITMLLTDRNLNTSFFDPTGGTLYFIFGAWSGLLGTSLLIRAE LNPNNSLINNDQIYNSIITS